Ref. No. JNNCE/E &C/987/2020-21

Date. 08-02-2021

To,

The Regional officer,
South Western Regional Office,
P.K. Block, Place Road,
Bangalore – 560 009
Ph: 080-22205979, 080-22205919, 080-22208407
Fax No. 080-22253232
Email: swro@aicte-india.org

Respected Sir,

Sub: Submission of Utilization Certificate of the FDP 819- reg.

With references to the above subject the Dept. of ECE, JNNCE, Shimoga was conducted online AICTE ATAL FDP, with workshop ID 819 on "Building Smart Things by Leveraging IoT Technology" during 4th to 8th January 2021. With reference to the letter F.No. 01/AICTE/ATAL-HQ/2020-21/1631, dated 7th December 2020 Rs. 93,000/- was received towards the conduction of above said FDP with Dr. Manjunatha P as Coordinator. As per the reference letter the expenditures are made under different headings and total amount of Rs. 93,000/- was utilized for the conduction of the FDP.

I hereby submitting original copy of the utilization certificate of Rs. 93,000/- duly signed by the coordinator, Account officer, Head of the instate and Chartered Accountant. Kindly accept the certificate and acknowledge the same.

Thanking You Sir,

Yours faithfully,

Dr. Manjunatha P

Coordinator

National Education Society(R.,) Shivamogga.

Jawaharlal Nehru National College of Engineering, Shivamogga

ಜವಾಹರ್ಲಾಲ್ ನೆಹರು ರಾಷ್ಟ್ರೀಯ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

(Approved by A.I.C.T.E.New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC - 'B', Recognised by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Ref. No.: JNNCE/

05 FEB 2021

UTILIZATION CERTIFICATE FOR THE FINANCIAL YEAR 2020-21

Name of the Scheme under which Grant was sanctioned: **AICTE ATAL ONLINE FDP**

AICTE File No. : **No.01/AICTE/ATAL-HQ/2020-21/1631** Date: **07.12.2020**
Name of Co-ordinator : **Dr Manjunatha P**
Dates of the Programme : **4th to 8th January 2021**
Title of the ATAL Programme : **Building Smart Things by leveraging IoT Technology**

Sl. No.	AICTE Sanction Order/Letter No.& Date under which grant was sanctioned	Amount (Rs.)	
1	**No.01/AICTE/ATAL-HQ/2020-21/1631 Date: 07.12.2020**	93,000-00	Certified that out of the grant-in-aid of **Rs.93,000-00 (Ninety-three thousand only)** sanctioned by the AICTE during the financial year 2020-21 in favour of **J N N College of Engineering, Shimoga** as per letter mentioned in the margin, Rs. **Nil** on account of unspent balance of previous year, Rs. **93,000/-** on account of other income / receipts, a sum of **Rs.93,000/-** has been utilized for the purpose for which it was sanctioned and the balance of Rs. **Nil** remained unutilized at the end of the year.

Certified that I have satisfied myself that the conditions on which the grant-in-aid was sanctioned have been duly fulfilled and that I have exercised the following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised: -
- Audited Annual Accounts of the Institute
- Receipt and Payment account
- Periodical Progress Reports.

Professor & Dean (Academic)
J.N.N. College of Engineering
Navule, Savalanga Road,
Shivamogga – 577 204,

(1). Name, Signature & Address of the Claimant/Awardee/Coordinator with seal:

For A. Narasimha Murthy & Co.,
Chartered Accountants

2). Signature of Chartered Accountant:
Name of Chartered Accountant:
Proprietor
M. No. 214269,
Firm Reg. No: 011107S

(3). Signature of Head of the Institute:
Name & Designation of the Head of Institute:
Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

UDIN - 21214269 AAAACB9106   ನವುಲೆ, ಶಿವಮೊಗ್ಗ – 577 204, ಕರ್ನಾಟಕ

Navule, Shivamogga - 577 204, Karnataka
E - mail : principal@jnnce.ac.in Website : www.jnnce.ac.in
☎ : 08182 - 276707 / 08 / 09,268800 / 1, Fax : 08182 - 222450

AICTE Training And Learning(ATAL) Academy Programme
FORMAT FOR STATEMENT OF EXPENDITURE

AICTE File No. : **No.01/AICTE/ATAL-HQ/2020-21/1631** Date: 07.12.2020

Name of Co-ordinator : **Dr Manjunatha P**

Title of the ATAL Programme : **Building Smart Things by leveraging IoT Technology**

Sanction No. and Date	Grant Sanctioned	Details of expenditure Incurred Itemwise	Amount Rs. (in each head)	No.of Participants	Duration of the Programme (with dates)
No.01/AICTE/ATAL-HQ/2020-21/1631 Date: 07.12.2020	93000.00	Honorarium for Director/Vicechancellor/ Head of Institution.	10000.00	147	5 Days From 04.01.2021 to 08.01.2021
		Honorarium to Coordinator Rs.2000/- per day × 5 days	10000.00		
		Honorarium for experts (Rs.3000 per session for total 14 session).	42000.00		
		Institution Charges	15000.00		
		Miscellaneous Charges & Payment for Lab attendant (15000+1000)	16000.00		
		Total	**93000.00**		

Name and Signature of Coordnator
with Seal

Professor & Dean (Academic)
J.N.N. College of Engineering
Navule, Savalanga Road,
Shivamogga - 577 204.

0 5 FEB 2021

Name and Signature of
Head of Institution with Seal

Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

Signature of Chartered Accountant:
Name of Chartered Accountant:
Membership No:

UDIN: 21214269AAAACB9106

For A. Narasimha Murthy & Co.,
Chartered Accountants

CA. Sharath
Proprietor
M. No. 214269,
Firm Reg. No: 011107S

REPORT
Internet of Things (IOT)

Date: 04.01.2021 - 08.01.2021,
Institute Name: JNN College of Engineering, Shivamogga

Date: 19-01-2021

FDP Report

The Department of Electronics and Communication has organized an online FDP on "Building Smart Things by leveraging IOT Technology" from 04-01-2021 to 08-01-2021 sanctioned under ATAL scheme by AICTE ref no 01/AICTE/ATAL-HQW/2020-21/1631. Dr. Manjunatha P, Professor and Dean Academics, JNN College of Engineering, Shivamogga is the coordinator of the FDP. Around 190 participants from various parts of the country registered to the workshop.

The FDP was inaugurated in the graceful presence of Sri S N Nagaraja, Secretary NES, as the guest of honour, Dr Sathyanarayana. S. V., Prof and Head Department of ECE and Dr Manjunatha. P Professor and Dean Academics and Coordinator of the FDP. In his inaugural address Sri S N Nagaraja pointed out the importance of the FDP for the academia. Dr Sathyanarayana. S. V gave an overview about the institution and Department. Dr Manjunatha P highlighted the need of the FDP and gave information about the rules and schedule of the FDP.

The inauguration was immediately followed by a session on introduction to IOT and various sensors. The session was handled by Dr Manjunatha P. The session 2 and session 3 of the day 1 of the FDP was completely dedicated to the installation of Arduino IDE, interfacing various sensors to Arduino. Mr Prashanth G. S, Assistant Professor, Department of ECE and Mr Benak Patel. M. P, Assistant Professor, Department of E&TE under the guidance of Dr. Manjunatha. P handled the sessions with demonstration.

The day 2 started with the introduction to the proteus design suite and also demonstrated the working under proteus environment by conducting simple experiments. This was followed by a session on Node MCU by Mr Raviteja Balekai, Assistant professor, Department of ECE, GMIT Davanagere. The session included also interfacing sensors with Node MCU along with demonstration. The afternoon session was handled by Mr. Benak Patel. M. P where usage of online platforms like IFTT, ADAFRIUT.IO and BLYNK were introduced.

The Day 3 session was handled by Mr Chethan K R Assistant professor, Department of ECE, JNNCE Shivamogga and he gave an overview of the Linux OS environment and it's associated commands. This was followed by an introduction to python scripting language and demonstrated various codes. The post lunch session was again handled by Mr. Benak Patel. M. P where he introduced the Raspberry Pi and demonstrated interfacing various sensors to Raspberry Pi. Also SCRATCH PLATFORM was also discussed.

The first session on day 4 was handled by Mr. Koushik. R. Udupa, Ekathva Innovations Pvt. Limited, Shivamogga. He discussed quick prototyping of IOT ideas without any sensor interface. Also he gave an overview of Tinker cad online simulator. This was followed by a technical talk on Security Aspects in IOT by Dr Anand Babu J, Associate Professor Department of ISE, MCE Hassan. The afternoon session was on stress Management by Dr Aravind S T, Positive Mind Clinic, Shivamogga.

The day 5 session was handled by Dr Kiran M, from NITK suratkal started with the application of IOT in various fields and was mainly concentrated on the IOT application in agriculture. The last session of the workshop was on block chain technology.

The valedictory session was presided by Dr Shashidhar S Kudri, Principal JNNCE Shivamogga. Dr M.M Rajath Hegde, Dean Infrastucture, Dr Manjunatha P, Dean Academics and FDP Coordinator, Dr Sathyanarayana S V Professor and Head, Department of Electronics and communication were present. In his presidential address he appreciated the enthusiasm of the participants and encouraged the department to organize such ATAL sponsored FDPs in a timely manner. In the feedback session participants said that they were very much benefitted by the sessions as almost all sessions included the demonstration. They also expressed that all the sessions were very systematically delivered and all queries were answered in time.

List of Participants of the FDP

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Workshop Schedule

Date	Topics and Resource Persons		
	09.30 to 11.00 AM	**11.30 AM to 1.00 PM**	**2.30 to 4.00 PM**
	Session 1	Session 2	Session 3
04.01.2021 Monday	**Inaugural Session. Introduction to IoT and Sensors Dr. Manjunatha P** JNNCE, Shivamogga	**Installing Arduino IDE. Interfacing sensors, actuators with Arduino Uno (IR,LDR,PIR) Dr. Manjunatha P and Mr. Prashanth G S** JNNCE, Shivamogga	**Interfacing sensors, actuators with Arduino Uno (LCD,Temp,Servo motor) Dr. Manjunatha P and Mr. Prashanth G S** JNNCE, Shivamogga
	Session 4	Session 5	Session 6
05.01.2021 Tuesday	**Configuring Arduino IDE for Node MCU board usage. How to include library packages to Node MCU both online and offline. Node MCU as server, Access point Network Scanner. Mr. Benak Patel** JNNCE,Shivamogga	**Onboard LED blink, Interfacing Sensors and actuators. Blynk App intro, adafruit io. MQTT intro, MQTT on Node MCU. Mr. Benak Patel** JNNCE, Shivamogga. **Mr. Ravitej Balekai** GMIT, Davangere	MIT app inventor intro, App design using MIT app inventor and controlling on board LED. **Mr. Benak Patel** JNNCE, Shivamogga.
	Session 7	Session 8	Session 9
06.01.2021 Wednesday	**Hands-on Session on Linux Operating System Dr. Chethan K R** JNNCE, Shivamogga.	**Introduction to Python Scripting Language and Hands on session Dr. Chethan K R** JNNCE, Shivamogga.	**Introduction to Raspberry Pi. Interfacing Sensors, Actuators with Raspberry Pi Mr. Benak Patel** JNNCE, Shivamogga.
	Session 10	Session 11	Session 12
07.01.2021 Thursday	**Quick prototyping: Building a quick POC of your idea. Using GDB and Autodesk TinkerCAD Mr. Koushik R Udupa** Ekathva Innovations Pvt. Limited, Shivamogga	**Security Aspects in IoT Dr. Anand babu J** MCE, Hassan.	**Stress Management Dr. Aravind S T** Positive Mind Clinic, Shivamogga.
	Session 13	Session 14	
08.01.2021 Friday	**Blockchain Applications with IoT Dr. Kiran M** NITK, Surathkal	**A deeper look at IoT in smart city and other applications Dr. Kiran M** NITK, Surathkal	**Test, Feedback**

Tea Break

Lunch Break

photo clips:

The photo clips of the inaugural sessions and lecture sessions.

1. Inaugural Session
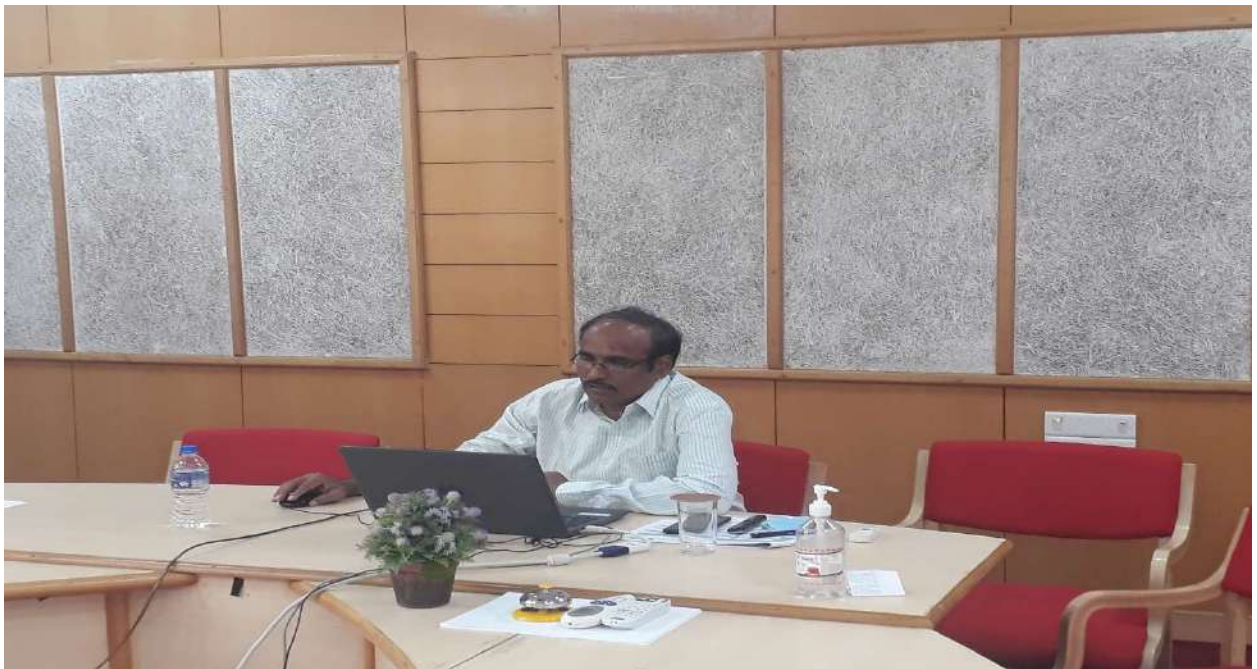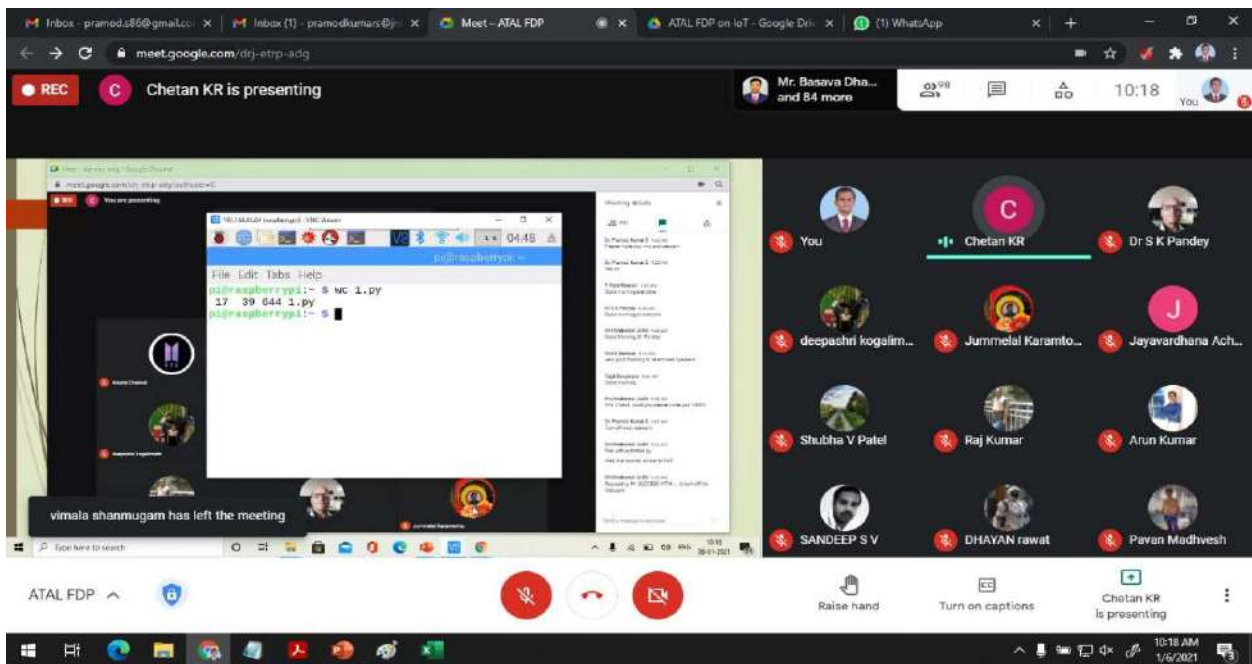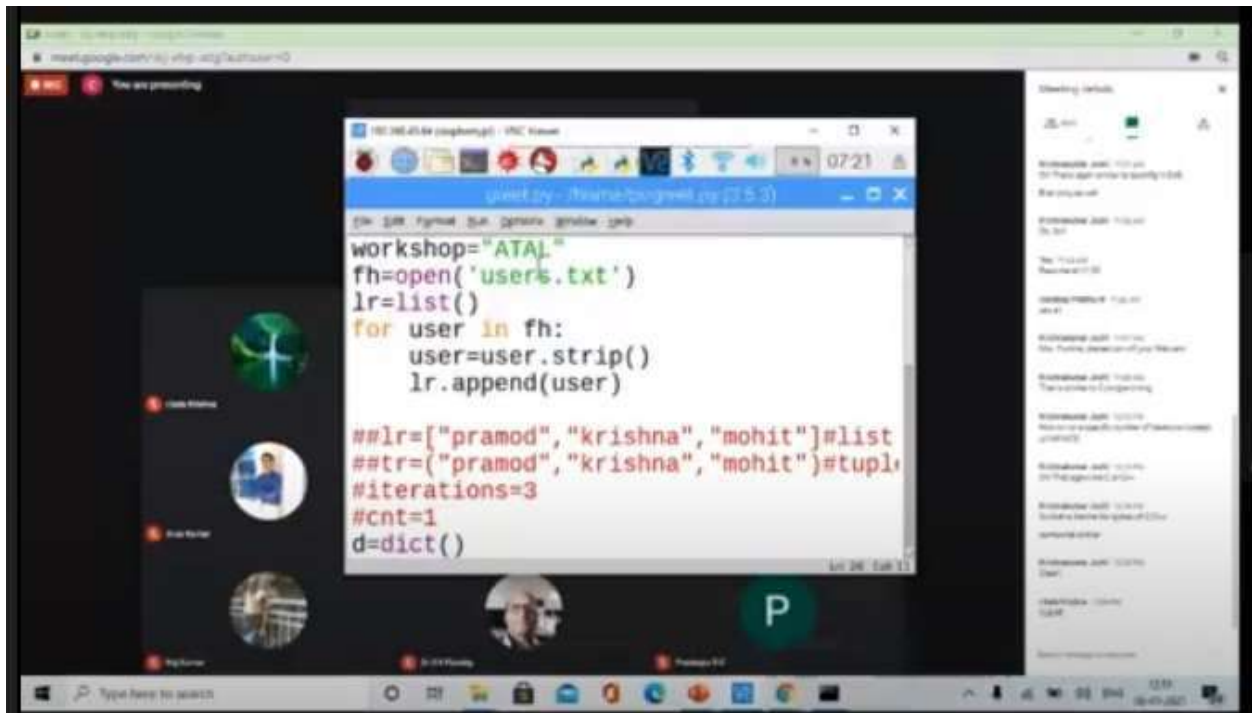

2. Session 1

3. Session 2

4. Session 3

5: Session 4
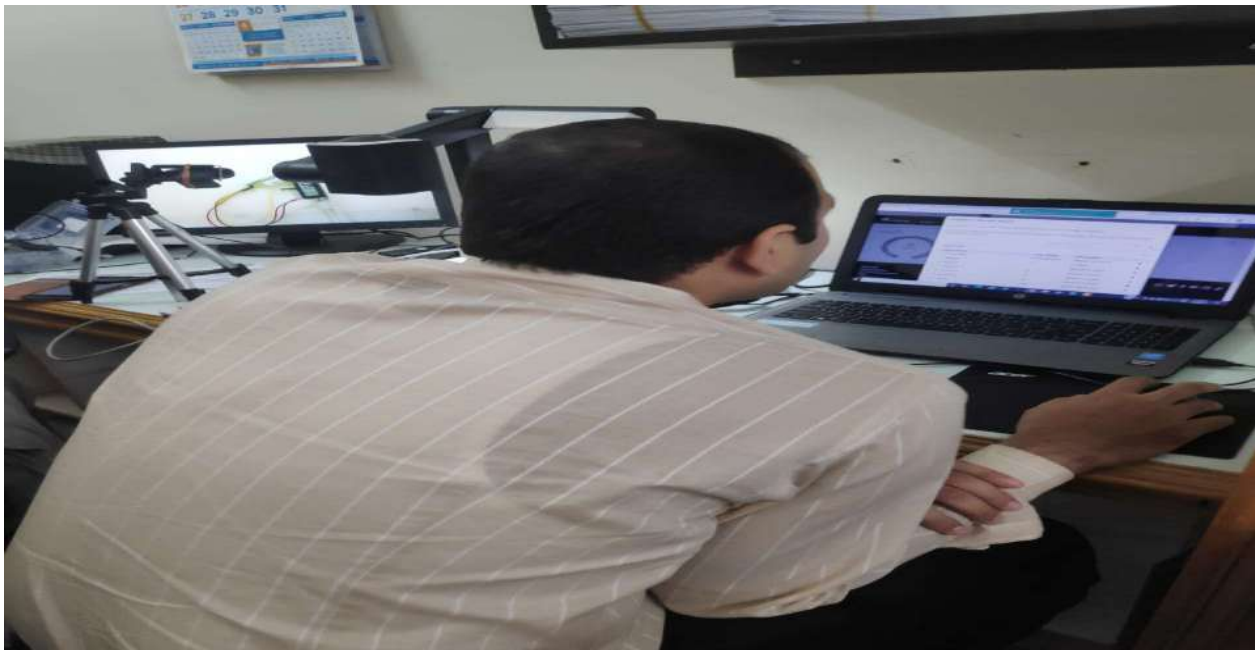
6.Sesion5
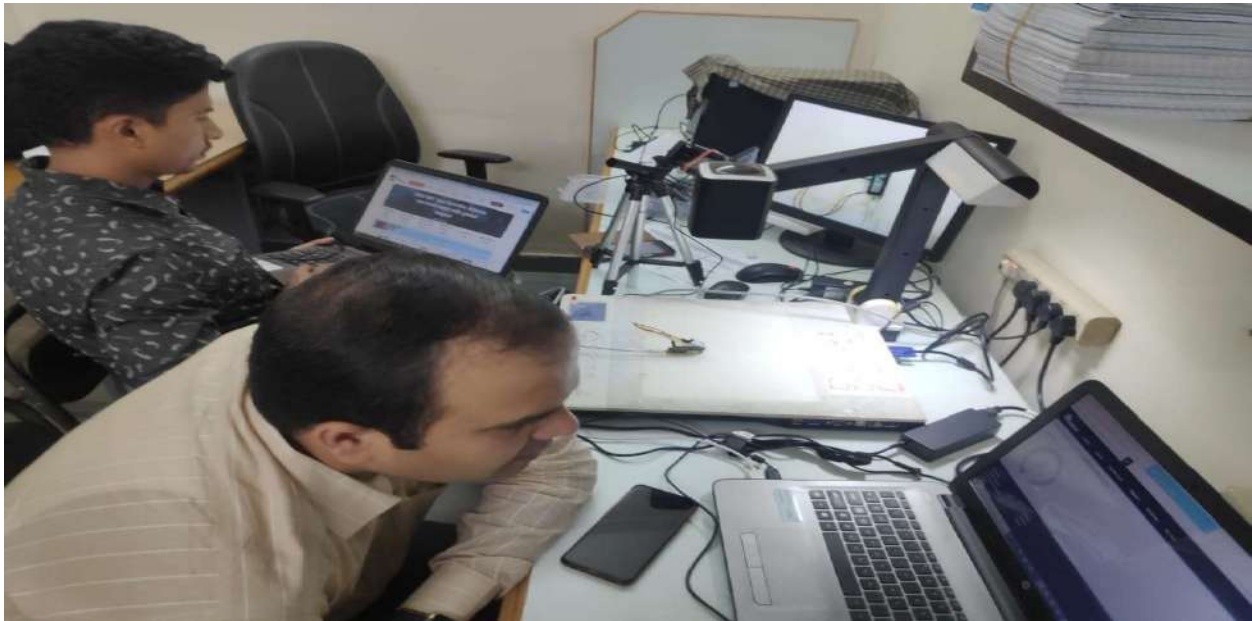
7:Session 6

8:Session 7

9:Session 8

10:Session 9

11:Session 10

12:Session 11

13:Session 12

14: Session13

15:Session 14

16:Valedictory Session

ಆಧುನಿಕ ಯುಗದಲ್ಲಿ ಇಂಟರ್‌ನೆಟ್ ಆಫ್‌ ಥಿಂಗ್ಸ್ ಉದಯೋನ್ಮುಖ ತಂತ್ರಜ್ಞಾನ : ಎಸ್.ಎನ್. ನಾಗರಾಜ್

ಶಿವಮೊಗ್ಗ :- ಇಂದಿನ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ ಇಂಟರ್‌ನೆಟ್ ಆಫ್‌ ಥಿಂಗ್ಸ್ ಉದಯೋನ್ಮುಖ ತಂತ್ರಜ್ಞಾನವಾಗಿದ್ದು ಸಮರ್ಪಕ ಸಂಶೋಧನೆಗಳೊಂದಿಗೆ ಹೊಸ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸಿ ಎಂದು ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ಸಮಿತಿ ಕಾರ್ಯದರ್ಶಿ ಎಸ್.ಎನ್. ನಾಗರಾಜ್ ಕರೆ ನೀಡಿದರು

ಇಂದು ಜಿಎನ್‌ಎಸ್‌ಸಿ ಇಂಜಿನಿ ಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಆಟಲ್ ಆಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್‌ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ

ಐದು ದಿನಗಳ ಕಾಲ ಐಓಟಿ ತಂತ್ರ ಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನುರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರವನ್ನು ಉದ್ಘಾಟಿಸಿ ಅವರು ಮಾತನಾಡಿದರು.

ನಾವು ಇರುವ ಸ್ಥಳದಿಂದಲೇ ನಮ್ಮ ಮನೆಯ ಮತ್ತು ಸುತ್ತಲಿನ ವಸ್ತುಗಳನ್ನು ಮೊಬೈಲ್ ಮೂಲಕ ನಿಯಂತ್ರಿಸು ವಂತಹ ಅದ್ಭುತ ತೋರಿಸಿಕೊಟ್ಟಿದ್ದು ಇಂಟರ್‌ನೆಟ್ ಆಫ್‌ ಥಿಂಗ್ಸ್ ಎಂಬ ತಂತ್ರಜ್ಞಾನದಂತಹ ಮತ್ತಷ್ಟು ಸಂಶೋಧನೆಗಳು ಐ.ಓ.ಟಿ ಮೂಲಕ ನಡೆಯಲಿ ಎಂದು ಆಶಿಸಿದರು.

ಶೈಕ್ಷಣಿಕ ಡೀನ್ ಡಾ. ಪಿ. ಮಂಜುನಾಥ ಮಾತನಾಡಿ ಐದು ದಿನಗಳ ಈ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ

ಇಂಟರ್ನೆಟ್ ಆಫ್‌ ಥಿಂಗ್ಸ್ ತಂತ್ರಜ್ಞಾನದ ಹಲವು ವಿಚಾರಗಳು ಚರ್ಚಿಯಾಗಲಿದ್ದು ಇದರ ಜೊತೆಗೆ ಒತ್ತಡ ನಿರ್ವಹಣೆ, ಬ್ಲಾಕ್ ಚೈನ್ ಅಪ್ಲಿಕೇಷನ್, ಪೈಥಾನ್, ಲೈನಕ್ಸ್ ನಂತಹ ಪ್ರಸ್ತುತ ವಿಷಯಗಳ ಕುರಿತು ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಗಳು ಮಾಹಿತಿ ನೀಡಲಿದ್ದಾರೆ ಎಂದು ವಿವರಿಸಿದರು.

ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಎಸ್.ಐ. ಸತ್ಯನಾರಾಯಣ, ಸಂಯೋಜಕ ಡಾ. ಎಸ್. ಪ್ರಮೋದ್ ಕುಮಾರ್, ದರ್ಶನ ಕೆ.ಐ. ಹಾಗೂ ಇನ್ನಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಸಹ ಪ್ರಾಧ್ಯಾಪಕಿ ಸುಮತಿ ಪ್ರಾರ್ಥಿಸಿ, ಉಜ್ವಲ ನಿರೂಪಿಸಿದರು.

ಐ.ಓ.ಟಿ ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸಿ

ಶಿವಮೊಗ್ಗ: ಇಂದಿನ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್ ಉದಯೋನ್ಮುಖಿ ತಂತ್ರಜ್ಞಾನವಾಗಿದ್ದು ಸಮರ್ಪಕ ಸಂಶೋಧನೆಗಳೊಂದಿಗೆ ಹೊಸ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸಿ ಎಂದು ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ಸಮಿತಿ ಕಾರ್ಯದರ್ಶಿಗಳಾದ ಎಸ್.ಎನ್. ನಾಗರಾಜ ಕರೆ ನೀಡಿದರು

ಇಂದುನಗರದ ಜೆ.ಎನ್.ಎನ್.ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಅಟಲ್ ಅಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್ ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ ಐದು ದಿನಗಳ ಕಾಲ ಐ.ಓ.ಟಿ. ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರವನ್ನು ಆನ್ ಲೈನ್ ಮೂಲಕ ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದ ಅವರು, ನಾವು ಇರುವ ಸ್ಥಳದಿಂದಲೇ ನಮ್ಮ ಮನೆಯ ಮತ್ತು ಸುತ್ತಲಿನ ವಸ್ತುಗಳನ್ನು ಮೊಬೈಲ್ ಮೂಲಕ ನಿಯಂತ್ರಿಸುವಂತಹ ಅಧ್ಭುತ ತೋರಿಸಿಕೊಟ್ಟಿದ್ದು ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್ ಎಂಬ ತಂತ್ರಜ್ಞಾನ. ಈ ರೀತಿಯ ಮತ್ತಷ್ಟು ಸಂಶೋಧನೆಗಳು ಐ.ಓ.ಟಿಮೂಲಕ ನಡೆಯಲಿ ಎಂದು ಆಶಿಸಿದರು

ಶೈಕ್ಷಣಿಕ ಡೀನ್ ಡಾ.ಪಿ.ಮಂಜುನಾಥ ಮಾತನಾಡಿದ್ದು ದಿನಗಳ ಈ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್ ತಂತ್ರಜ್ಞಾನದ ಹಲವು ವಿಚಾರಗಳು ಚರ್ಚೆಯಾಗಲಿದ್ದು ಇದರಜೊತೆಗೆಉತ್ತಮ ನಿರ್ವಹಣೆ, ಬ್ಲಾಕ್ ಚೈನ್ ಅಪ್ಲಿಕೇಶನ್, ಪೈಥಾನ್, ಲೈನಕ್ಸ್ ನಂತಹ ಪ್ರಸ್ತುತ ವಿಷಯಗಳ ಕುರಿತು ಸಂಪನ್ಮೂಲ ವ್ಯಕ್ತಿಗಳು ಮಾಹಿತಿ ನೀಡಲಿದ್ದಾರೆ ಎಂದು ವಿವರಿಸಿದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಎಸ್.ವಿ. ಸತ್ಯನಾರಾಯಣ, ಕಾರ್ಯಾಗಾರದ ಸಂಯೋಜಕ ಡಾ.ಎಸ್.ಪ್ರಮೋದ್ ಕುಮಾರ, ದರ್ಶನ.ಕೆ.ವಿ ಸೇರಿ ದಂತೆ ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಸಹ ಪ್ರಾಧ್ಯಾಪಕರಾದ ಸುಮತಿ.ಕೆ ಪ್ರಾರ್ಥಿಸಿ, ಉಜ್ವಲ ರವಿಕುಮಾರ್ ನಿರೂಪಿಸಿದರು.

ಐ.ಓ.ಟಿ. ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸಿ

ಶಿವಮೊಗ್ಗ, ಜ.04:- ಇಂದಿನ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನ ಕ್ಷೇತ್ರದಲ್ಲಿ 'ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್' ಉದಯೋನ್ಮುಖಿ ತಂತ್ರಜ್ಞಾನವಾಗಿದ್ದು, ಸಮರ್ಪಕ ಸಂಶೋಧನೆಗಳೊಂದಿಗೆ ಹೊಸ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸಿ ಎಂದು ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ಸಮಿತಿ ಕಾರ್ಯದರ್ಶಿ ಎಸ್.ಎನ್.ನಾಗರಾಜ ಕರೆ ನೀಡಿದರು.

ಇಂದು ನಗರದ ಜೆ.ಎನ್.ಎನ್.ಸಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಅಟಲ್ ಅಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ ಐದು ದಿನಗಳ ಐ.ಓ.ಟಿ. ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರವನ್ನು ಆನ್ಲೈನ್ ಮೂಲಕ ಉದ್ಘಾಟಿಸಿ ಮಾತನಾಡಿದ ಅವರು ನಾವು ಇರುವ ಸ್ಥಳದಿಂದಲೇ ನಮ್ಮ ಮನೆಯ ಮತ್ತು ಸುತ್ತಲಿನ ವಸ್ತುಗಳನ್ನು ಮೊಬೈಲ್ ಮೂಲಕ ನಿಯಂತ್ರಿಸುವಂತಹ ಅದ್ಭುತ ತೋರಿಸಿಕೊಟ್ಟಿದ್ದು ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್ ಎಂಬ ತಂತ್ರಜ್ಞಾನ. ಈ ರೀತಿಯ ಮತ್ತಷ್ಟು ಸಂಶೋಧನೆಗಳು ಐ.ಓ.ಟಿ. ಮೂಲಕ ನಡೆಯಲಿ ಎಂದು ಆಶಿಸಿದರು

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಎಸ್.ವಿ.ಸತ್ಯನಾರಾಯಣ, ಕಾರ್ಯಾಗಾರದ ಸಂಯೋಜಕ ಡಾ.ಎಸ್.ಪ್ರವೋದ್‌ಕುಮಾರ, ದರ್ಶನ ಕೆ.ವಿ. ಸೇರಿದಂತೆ ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಸಹ ಪ್ರಧ್ಯಾಪಕಿ ಕೆ. ಸುಮತಿ ಪ್ರಾರ್ಥಿಸಿ, ಉಜ್ವಲ ರವಿಕುಮಾರ್ ನಿರೂಪಿಸಿದರು.

ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶ ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ

ಶಿವಮೊಗ್ಗ: ಇಂದಿನ ದಿನಮಾನದಲ್ಲಿ ಹಲವು ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳು ದೊರೆಯುತ್ತಿರುವುದು ಅಭಿನಂದನಾರ್ಹ ವಿಚಾರವಾಗಿದ್ದು, ಅಂತಹ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳುವಂತೆ ಜೆಎನ್ಎನ್ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಚಾರ್ಯ ಡಾ. ಶಶಿಧರ ಕೆ. ಕುದರಿ ಹೇಳಿದರು.

ನಗರದ ಜೆಎನ್ಎನ್ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಅಟಲ್ ಅಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ ಐದು ದಿನಗಳ ಐಓಟಿ ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರದ ಸಮಾರೋಪ ಸಮಾರಂಭದಲ್ಲಿ ಮಾತನಾಡಿದರು.

ಕೋವಿಡ್ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಕಲಿಕೆಗೆ ಹಿನ್ನೆಡೆಯಾಗಬಾರದೆಂಬ ಮೂಲ ಆಶಯದೊಂದಿಗೆ ಹಲವು ಕಲಿಕಾ ವಿಧಾನವನ್ನು ಆನ್ಲೈನ್ಗೊಳಿಸಲಾಗಿದ್ದು ನಿರಂತರ ಕಲಿಕೆಗೆ ಪೂರಕವಾಗಿದೆ ಎಂದು ಹೇಳಿದರು.

ಇನ್ಫಾಸ್ಟ್ರಕ್ಚರ್ ಡೀನ್ ಡಾ. ಎಂ.ಎಂ. ರಜತ್ ಹೆಗಡೆ ಮಾತನಾಡಿ, ಭಾರತ ಸರ್ಕಾರವು ಅಟಲ್ ಅಕಾಡೆಮಿಯ ಮೂಲಕ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನದ ಹಲವು ವಿಚಾರಗಳ ಕುರಿತು ಕಾರ್ಯಾಗಾರಗಳನ್ನು ಆಯೋಜಿಸುವುದರ ಮೂಲಕ ಉಪನ್ಯಾಸಕರು ಹಾಗೂ ವಿದ್ಯಾರ್ಥಿ ಸಮೂಹಕ್ಕೆ ಹೊಸತನದ ಕಲಿಕೆಗೆ ಪೂರಕ ವೇದಿಕೆಗಳನ್ನು ರೂಪಿಸುತ್ತಿದ್ದು ಇದರ ಸಮುಪಯೋಗ ಪಡಿಸಿಕೊಳ್ಳುವುದರ ಮೂಲಕ ಆವಿಷ್ಕಾರದೆಡೆಗೆ ನಮ್ಮನ್ನು ನಾವು ತೆರೆದುಕೊಳ್ಳಬೇಕಿದೆ ಎಂದು ಹೇಳಿದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶೈಕ್ಷಣಿಕ ಡೀನ್ ಡಾ. ಪಿ. ಮಂಜುನಾಥ, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಎಸ್.ವಿ. ಸತ್ಯನಾರಾಯಣ, ಕಾರ್ಯಾಗಾರದ ಸಂಯೋಜಕರಾದ ಡಾ. ಎಸ್. ಪ್ರಮೋದ್ಕುಮಾರ, ಕೆ.ವಿ. ದರ್ಶನ, ಬೀನಕ್ ಪಟೇಲ್ ಸೇರಿದಂತೆ ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು.

ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶ ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ

● **ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ** ಶಿವಮೊಗ್ಗ

ಇಂದಿನ ದಿನಮಾನದಲ್ಲಿ ಹಲವು ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳು ದೊರೆಯುತ್ತಿರುವುದು ಅಭಿನಂದ ನಾರ್ಹ ವಿಚಾರವಾಗಿದೆ. ಅಂತಹ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ ಎಂದು ಜೆ.ಎನ್.ಎನ್.ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲರಾದ ಡಾ.ಶಶಿಧರ ಕೆ ಕುದರಿ ಹೇಳಿದರು.

ನಗರದ ಜೆ.ಎನ್.ಎನ್.ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಅಟಲ್ ಅಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್‌ಲೈನ್

ಮೂಲಕ ಏರ್ಪಡಿಸಿದ ಐದು ದಿನಗಳ ಐ.ಒ.ಟಿ ತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರದ ಸಮಾರೋಪ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಅವರು ಮಾತನಾಡಿದರು. ಕೋವಿಡ್ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಕಲಿಕೆಗೆ ಹಿನ್ನಡೆಯಾಗ ಬಾರದೆಂಬ ಮೂಲ ಆಶಯ ದೊಂದಿಗೆ ಹಲವು ಕಲಿಕಾ ವಿಧಾನವನ್ನು ಆನ್‌ಲೈನ್ ಮಾಡಲಾಗಿದೆ, ನಿರಂತರ ಕಲಿಕೆಗೆ ಪೂರಕವಾಗಿದೆ ಎಂದು ಹೇಳಿದರು.

ಇನ್ಫಾಸ್ಟ್ರಕ್ಚರ್‌ಡೀನ್ ಡಾ.ಎಂ.ಎಂ.ರಾಜ್ ಹೆಗಡೆ ಮಾತನಾಡಿ, ಭಾರತಸರ್ಕಾರವುಅಟಲ್ ಅಕಾಡೆಮಿಯ ಮೂಲಕ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನದ ಹಲವು ವಿಚಾರಗಳ

ಕುರಿತು ಕಾರ್ಯಾಗಾರಗಳನ್ನು ಆಯೋಜಿಸುವ ಮೂಲಕ ಉಪನ್ಯಾಸಕರು ಹಾಗೂ ವಿದ್ಯಾರ್ಥಿ ಸಮುದಾಯಕ್ಕೆ ಹೊಸತನದ ಕಲಿಕೆಗೆ ಪೂರಕ ವೇದಿಕೆಗಳನ್ನು ರೂಪಿಸುತ್ತಿದ್ದು ಇದರ ಸದುಪಯೋಗ ಪಡಿಸಿಕೊಳ್ಳುವುದರ ಮೂಲಕ ಆವಿಷ್ಕಾರದೆಡೆಗೆ ನಮ್ಮನ್ನು ತೆರೆದುಕೊಳ್ಳಬೇಕಿದೆ ಎಂದು ಹೇಳಿದರು.

ಟ್ರೈನಿಂಗ್‌ಕೊ–ಆರ್ಡಿನೇಟರ್ ಡಾ.ಪಿ.ಮಂಜುನಾಥ್, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್‌ಕಮ್ಯುನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ.ಎಸ್.ವಿ.ಸತ್ಯನಾರಾಯಣ, ಡಾ.ಎಸ್.ಪ್ರಮೋದ್‌ಕುಮಾರ,ದರ್ಶನ್.ಕೆ.ವಿ,ಬೇಸ್ ಪಟೇಲ್ ಸೇರಿದಂತೆ ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು.

ಶಿವಮೊಗ್ಗದ ಜೆಎನ್‌ಎನ್‌ಸಿ ಎಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಏರ್ಪಡಿಸಿದ ಐಓಟಿ ತಂತ್ರಜ್ಞಾನದ ಕಾರ್ಯಾಗಾರದ ಸಮಾರೋಪದಲ್ಲಿ ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಶಶಿಧರ ಕುದರಿ ಮಾತನಾಡಿದರು.

■ ಶಶಿಧರ ಕೆ.ಕುದರಿ ಕರೆ

ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ

ಶಿವಮೊಗ್ಗ, ಜ.09:-

ಇಂದಿನ ದಿನಮಾನದಲ್ಲಿ ಹಲವು ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳು ದೊರೆಯುತ್ತಿರುವುದು ಅಭಿನಂದನಾರ್ಹ ವಿಚಾರವಾಗಿದ್ದು ಅಂತಹ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ ಎಂದು ಜೆ.ಎನ್. ಎನ್.ಸಿ. ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜನ ಪ್ರಾಂಶುಪಾಲ ರಾದ ಡಾ. ಶಶಿಧರ ಕೆ. ಕುದರಿ ಹೇಳಿದರು.

ನಗರದ ಜೆ.ಎನ್.ಎನ್.ಸಿ. ಇಂಜಿನಿಯರಿಂಗ್

ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಆಟಲ್ ಅಕಾಡೆಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಆಂಡ್ ಕಮ್ಯುನಿ ಕೇಶನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ ಐದು ದಿನಗಳ ಐ.ಓ.ಟಿತಂತ್ರಜ್ಞಾನದ ಮೂಲಕ ಸ್ಮಾರ್ಟ್ ವಿಷಯ ಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರದ ಸಮಾರೋಪ ನುಡಿಗಳನ್ನಾಡಿದ ಅವರು ಕೋವಿಡ್ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಕಲಿಕೆಗೆ ಹಿನ್ನಡೆಯಾಗಬಾರದೆಂಬ

ಮೂಲ ಆಶಯದೊಂದಿಗೆ ಹಲವು ಕಲಿಕಾ ವಿಧಾನ ವನ್ನು ಆನ್ಲೈನ್ ಗೊಳಿಸಲಾಗಿದ್ದು ನಿರಂತರ ಕಲಿಕೆಗೆ ಪೂರಕವಾಗಿದೆ ಎಂದು ಹೇಳಿದರು.

ಇನ್ಸ್ಟ್ರಕ್ಟರ್ ದೀನ್ ಡಾ. ಎಂ.ಎಂ. ರಜತ್ ಹೆಗಡೆ ಮಾತನಾಡಿ, ಭಾರತ ಸರ್ಕಾರವು ಆಟಲ್ ಅಕಾ ಡೆಮಿಯ ಮೂಲಕ ಆಧುನಿಕ ತಂತ್ರಜ್ಞಾನದ ಹಲವು ವಿಚಾರಗಳ ಕುರಿತು ಕಾರ್ಯಾಗಾರಗಳನ್ನು ಆಯೋ ಜಿಸುವುದರ ಮೂಲಕ ಉಪನ್ಯಾಸಕರು ಹಾಗೂ ವಿದ್ಯಾರ್ಥಿ ಸಮೂಹಕ್ಕೆ ಹೊಸತನದ ಕಲಿಕೆಗೆ ಪೂರಕ ವೇದಿಕೆಗಳನ್ನು ರೂಪಿಸುತ್ತಿದ್ದು ಇದರ ಸದುಪಯೋಗ ಪಡಿಸಿಕೊಳ್ಳುವುದರ ಮೂಲಕ ಆವಿಷ್ಕಾರದೆಡೆಗೆ ನಮ್ಮನ್ನು ನಾವು ತೆರೆದುಕೊಳ್ಳಬೇಕಿದೆ ಎಂದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶೈಕ್ಷಣಿಕ ದೀನ್ ಡಾ. ಪಿ. ಮಂಜುನಾಥ, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಆಂಡ್ ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥರಾದ ಡಾ. ಎಸ್.ವಿ. ಸತ್ಯನಾರಾ ಯಣ, ಕಾರ್ಯಾಗಾರದ ಸಂಯೋಜಕರಾದ ಡಾ. ಎಸ್. ಪ್ರಮೋದ್ ಕುಮಾರ, ದರ್ಶನ ಕೆ.ವಿ., ಬೆನಕ ಪಟೇಲ್ ಸೇರಿದಂತೆ ಮತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು.

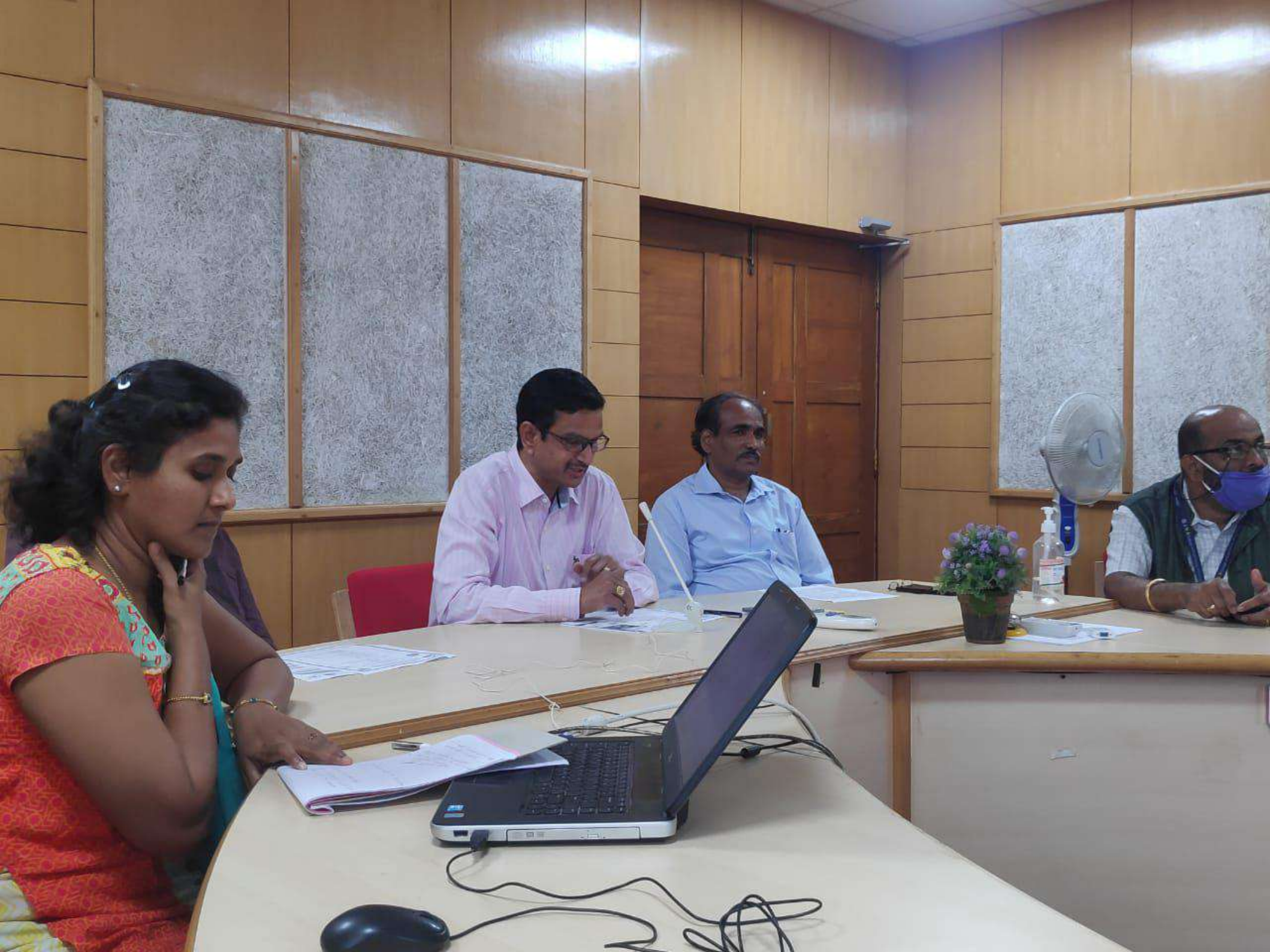# ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ

ಶಿವಮೊಗ್ಗ: ಇಂದಿನ ದಿನಮಾನ ದಲ್ಲಿ ಹಲವು ಆಧುನಿಕ ಕಲಿಕಾ ಅವಕಾಶಗಳು ದೊರೆಯುತ್ತಿರುವುದು ಅಭಿನಂದನಾರ್ಹ ವಿಚಾರವಾಗಿದ್ದು ಅಂತಹ ಅವಕಾಶಗಳನ್ನು ಸಮರ್ಪಕ ವಾಗಿ ಬಳಸಿಕೊಳ್ಳಿ ಎಂದು ಜೆ.ಎಸ್. ಎನ್.ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲರಾದ ಡಾ.ಶಶಿಧರ ಕೆ ಕುದರಿ ಹೇಳಿದರು.
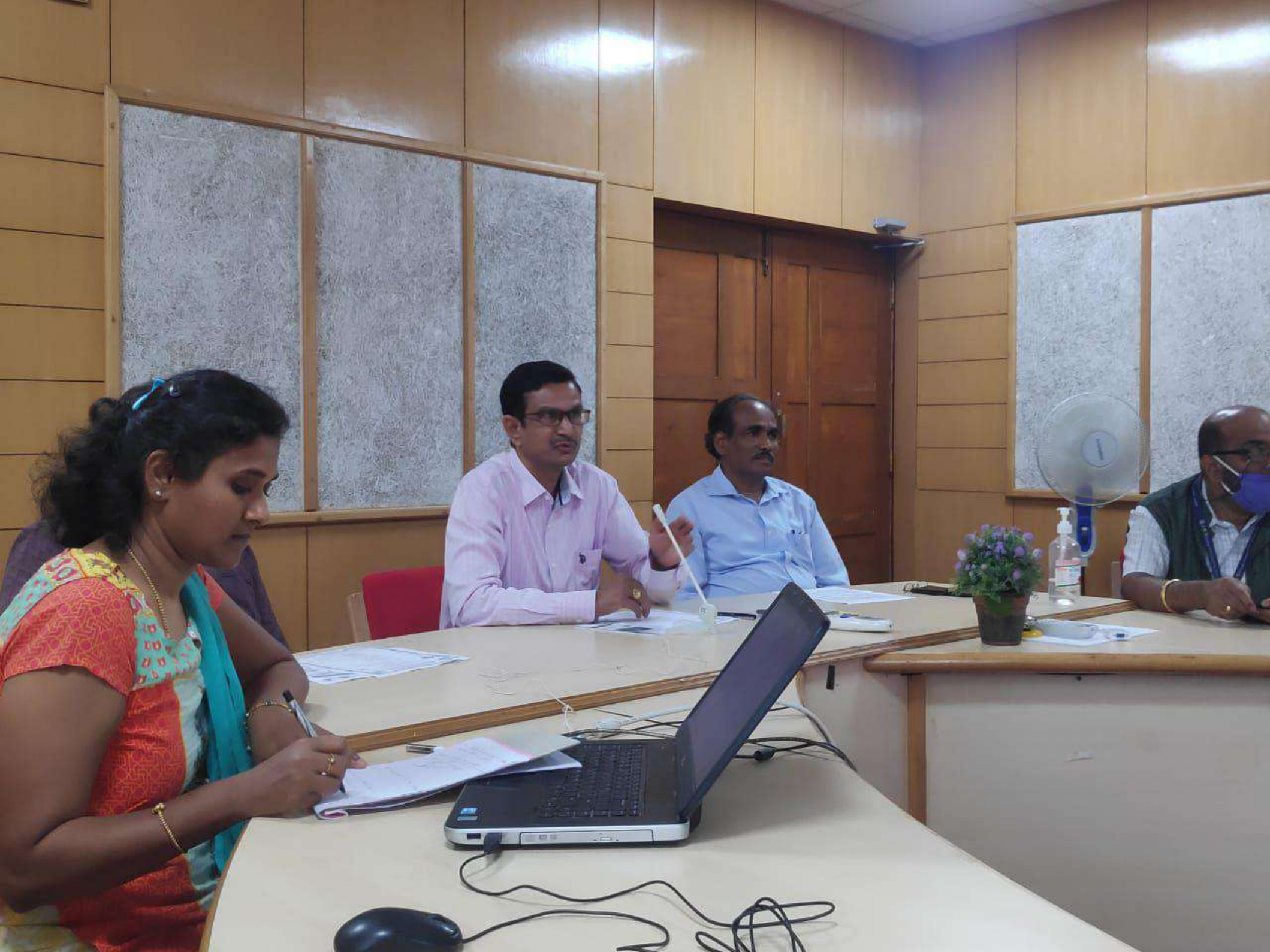
ನಗರದ ಜೆ.ಎಸ್.ಎನ್.ಸಿ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಭಾರತ ಸರ್ಕಾರದ ಅಟಲ್ ಅಕಾಡೆ ಮಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇಶನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಉಪನ್ಯಾಸಕರಿಗಾಗಿ ಆನ್‌ಲೈನ್ ಮೂಲಕ ಏರ್ಪಡಿಸಿದ್ದ ಐದು ದಿನಗಳ ಐ.ಓ.ಟಿ ತಂತ್ರ ಜ್ಞಾನದ ಮೂಲದ ಸ್ಮಾರ್ಟ್ ವಿಷಯ ಗಳನ್ನು ರೂಪಿಸುವುದರ ಕುರಿತ ಕಾರ್ಯಾಗಾರದ ಸಮಾರೋಪ ನುಡಿಗಳನ್ನಾಡಿದ ಅವರುಕೋವಿಡ್ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಕಲಿಕೆಗೆ ಹಿನ್ನಡೆಯಾಗ ಬಾರದೆಂಬ ಮೂಲ ಆಶಯದೊಂದಿ ಗೆ ಹಲವು ಕಲಿಕಾ ವಿಧಾನವನ್ನು ಆನ್ಲೈನ್‌ಗೊಳಿಸಲಾಗಿದ್ದು ನಿರಂತರ ಕಲಿಕೆಗೆ ಪೂರಕವಾಗಿದೆಯೆಂದು ಹೇಳಿದರು.

ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಶೈಕ್ಷಣಿಕ ಡೀನ್ ಡಾ.ಪಿ.ಮಂಜುನಾಥ, ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಅಂಡ್ ಕಮ್ಯುನಿಕೇ ಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಎಸ್.ಎ.ಸತ್ಯ ನಾರಾಯಣ, ಡಾ.ಎಸ್.ಪ್ರವೋದ್‌ಕುಮಾರ, ದರ್ಶನ.ಕೆ.ಎ, ಬೆನಕ ಪಟೇಲ್ ಸೇರಿದಂತೆ ವತ್ತಿತರರು ಉಪಸ್ಥಿತರಿದ್ದರು.

Contents

- Blockchain, Blockchain, Blockchain....

- How Chain is Maintained.

- Working of Blockchain

- Blockchain Architecture.

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2

How Biometrics is vulnerable

❑ Security holes are a typical example of the vulnerability. As a vulnerability in biometric authentication, "spoofing to others" is typical one. There are some specific attack methods of creating and presenting artifacts of some parts of living human body in some way.

Aravind Thimmaiah
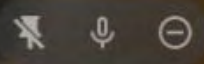
Working Principle of Blockchain

User Initiate transactions → User Submit their transactions to Miners/Nodes → One or more Nodes begin validating each transaction → Nodes aggregate validated transactions into Candidate Blocks

Nodes Broadcast Candidate Blocks to each other → Consensus Phase → If consensus reached, Candidate Block is added to main chain
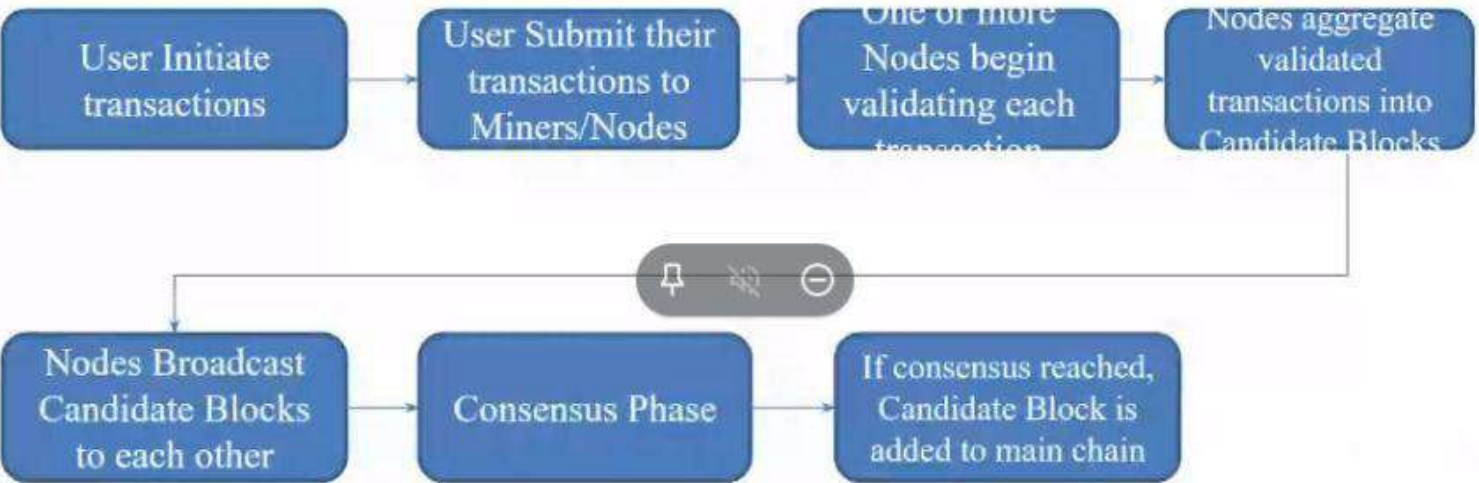
Adding new block to blockchain

Dr. Kiran M, NITK

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```python
workshop="ATAL"
fh=open('users.txt')
lr=list()
for user in fh:
    user=user.strip()
    lr.append(user)


##lr=["pramod","krishna","mohit"]#list
##tr=("pramod","krishna","mohit")#tupl
#iterations=3
#cnt=1
d=dict()
```

AICTE Training and Learning (ATAL)
on Line
Faculty Development Programme
on
"Building Smart Things by Leveraging IoT Technology"

04ᵗʰ to 08ᵗʰ, January, 2021

Sponsored by

Organized by :

**Department of Electronics & Communication
Engineering
J N N College of Engineering,
Shimoga - 577 204**

Q1   A program written with the IDE for Arduino is called _____ .

IDE source

Sketch

bin file

Source code

Q2   How many Digital I/0 pins does Arduino have.

12

14

13

15

Q3   Arduino Uno is a _____ .

Development Board

Microprocessor

Microcontroller

Q4   The default operating frequency for arduino UNO is _____ as its crystal oscillator.

16 MHz Crystal

12 MHz Crystal

15 MHz Crystal

20 MHz Crystal

Q5   Which instructions 'Sets the beginning of serial communication by setting the bit rate' Arduino

pin Mode()

digitalRead()

digitalWrite()

serial.begin()

Q6   Number of PWM pins in Arduino Uno

8

6

7

10

Q7   Which structure is called repetitively over and over again as long as the Arduino has power.

loop()

setup()

(output)

(input)

Q8   Number of Analog pins in Arduino uno

14

15

6

5

Q9   what microcontroller is used in Arduino Uno

Atmega328P

Atmega34P

PIC microcontroller

UNO ohno

Q10   What does p refer to in ATmega328p?

Production

Pico-Power

Pascal

Q11   Standard baud rate for serial communication

9800

1200

11520

9600

Q12   Arduino IDE consists of 2 functions. What are they?

Build() and loop()

Setup() and build()

Setup() and loop()

Loop() and build()

Q13   How power supply is done to RPi?

Micro USB connection

Internal battery

solar energy

Q14   What is the Ethernet/LAN cable used in RPi?

Cat5

Cat5e

Cat6

RJ45

Q15   Which instruction set architecture is used in Raspberry Pi?

X86

MSP

AVR

ARM

Q16   What is the default user in Debain on Raspberry Pi?

Default

User

Pi

Root

Q17   What bit processor is used in Pi 3?

64-bit

32-bit

128-bit

Both 64 and 32 bit

Q18   What is the speed of operation in Pi 3?

900MHz

1.2GHz

1GHz

500MHz

Q19   How many USB ports are present in Raspberry Pi 3?

2

4

3

0

Q20   SSID is an acronym for

Service Set Identifier

Self Set Identifier

Service Sector Identifier

Q21   Command used to find ip address assigned in Debian based Linux OS

Ipconfig

Ifconfig

Ipconfig

itconfig

Q22   To measure temperature DHT11 makes use of _____ .

Metal

PTC materials

NTC thermistor

Q23   To generate Ultrasonic pulses Trig pin in HC SR 04 should be made high for
_____ seconds.

10 micro

15milli

10 milli

5micro

Q24   The speed of sound in room temperature air is

346 meters per microsecond

346 meters per millisecond

346 kilometers per second

346 meters per second

Q25   Name of latest Official Raspbian OS

Wheezy

Jessie

Buster

stretch

Q26 Who developed the Python language?

Zim Den

Guido van Rossum

Niene Stom

Wick van Rossum

Q27 In which year was the Python language developed?

1995

1972

1981

1989

Q28 In which language is Python written?

English

PHP

C

All of the above

Q29 Which one of the following is the correct extension of the Python file?

.py

.python

.p

None of these

Q30 In which year was the Python 3.0 version developed?

2008

2000

2010

2005

Q31 What do we use to define a block of code in Python language?

Key

Brackets

Indentation

None of these

Q32 Which character is used in Python to make a single line comment?

/

//

#

!

Q33 Which of the following statements is correct regarding the object-oriented programming concept in Python?

Classes are real-world entities while objects are not real

Objects are real-world entities while classes are not real

Both objects and classes are real-world entities

All of the above

Q34 Which of the following declarations is incorrect?

_x = 2

__x = 3

__xyz__ = 5

None of these

Q35 Which of the following is not a keyword in Python language?

val

raise

try

with

Q36 Which of the following statements is correct for variable names in Python language?

All variable names must begin with an underscore.

Unlimited length

The variable name length is a maximum of 2.

All of the above

Q37 Which of the following words cannot be a variable in python language?

_val

val

try

try

Q38 Which of the following operators is the correct option for power(ab)?

a ^ b

a**b

a ^ ^ b

a ^ * b

Q39 Which of the following precedence order is correct in Python?

Parentheses, Exponential, Multiplication, Division, Addition, Subtraction

Multiplication, Division, Addition, Subtraction, Parentheses, Exponential

Division, Multiplication, Addition, Subtraction, Parentheses, Exponential

Exponential, Parentheses, Multiplication, Division, Addition, Subtraction

Q40. Which one of the following has the same precedence level?

Division, Power, Multiplication, Addition and Subtraction

Division and Multiplication

Subtraction and Division

Power and Division

Q41 Which one of the following has the highest precedence in the expression?

Division

Subtraction

Power

Parentheses

Q42 Which of the following functions is a built-in function in python language?

val()

printf()

print()

None of these

Q43. What will be the output of this function round(4.576) ?

4

5

576

5

Q44. Which of the following is correctly evaluated for this function pow(x,y,z)?

(x**y) / z

(x / y) * z

(x**y) % z

(x / y) / z

Q45. What will be the output of this function all([2,4,0,6]) ?

False

True

0

Invalid code

Q46. What will be the output of this code?

import math

abs(math.sqrt(36))

Error

-6
6
6.0
Q47. What will be the output of this statement?
>>>"a"+"bc"

a+bc
abc
a bc
a
Q48. What will be the output of this statement?
>>> str1 = "javat"
>>> str2 = ":"
>>> str3 = "point"
>>> str1[-1:]

t
j
point
java
Q49. What will be the output of this statement?
>>> print(0xA + 0xB + 0xC)
33
63
0xA + 0xB + 0xC
None of these
Q50. What will be the output of this statement?
>>> print(ord('h') - ord('z'))

18
-18
17
-17

ANSWER KEY:

Question	Answer
1.	**Sketch**
2.	**14**
3.	**Development Board**
4.	**16 MHz Crystal**
5.	**serial.begin()**
6.	**6**
7.	**loop()**
8.	**6**
9.	**Atmega328P**
10.	**Pico-Power**

11.	**9600**
12.	**Setup() and loop()**
13.	**Micro USB connection**
14.	**RJ45**
15.	**ARM**
16.	**Pi**
17.	**64-bit**
18.	**1.2GHz**
19.	**4**
20.	**Service Set Identifier**
21.	**Ifconfig**
22.	**NTC thermistor**
23.	**10 micro**
24.	**346 meters per second**
25.	**Buster**
26.	**Guido van Rossum**
27.	**1989**
28.	**C**
29.	**.py**
30.	**2008**
31.	**Indentation**
32.	**#**
33.	**Objects are real-world entities while classes are not real**

34.	**None of these**
35.	**val**
36.	**Unlimited length**
37.	**try**
38.	**a**b**
39.	**Parentheses, Exponential, Multiplication, Division, Addition, Subtraction**
40.	**Division and Multiplication**
41.	**Parentheses**
42.	**print()**
43.	**5**
44.	**(x**y) % z**
45.	**False**
46.	**6.0**
47.	**abc**
48.	**t**
49.	**33**
50.	**-18**

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'B', UG programs:CE,ME,EEE,ECE,CSE,ISE,TCE acredited by NBA:1.7.2019 to
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Dept. of Electronics & Communication Engineering

**AICTE - ATAL Sponsored Online FDP on "Building Smart
Things by Leveraging IoT Technology"**

Date: 08th January 2021

Sl. No.	Program	Time	
1.	Welcome	1.00PM to 1.05PM	Dr S V Sathyanarayana HoD, E & C
2.	Summary of the FDP	1:05PM to 1:10PM	Darshan K V Asst.Professor, ECE Dept.
3.	Feedback from the participants	1.10PM to 1.15PM	
4.	Address by Guest of Honour	1.15PM to 1.25PM	Sri S N Nagaraja, Secretary, NES
5.	Address by Dean- Infrastructure	1.25PM to 1.30PM	Dr. M M Rajath Hegde Dean Infrastructure,JNNCE
6.	Presidential Remarks	1.30PM to 1.35PM	Dr. Shashidhar K Kudari Principal, JNNCE
7.	Thank you note		Dr. Manjunatha P Coordinator, ATAL FDP.

Master of Ceremony: Smt. B S Ujwala, Asst.Prof., ECE Dept

JNN College of Engineering, Shivamogga

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Programme Schedule for AICTE - ATAL Sponsored Online FDP on "Building Smart Things by Leveraging IoT Technology" (04.01.2021 - 08.01.2021)

Google Meet ID: **https://meet.google.com/drj-etrp-adg**

Date	Topics and Resource Persons					
	09.30 to 11.00 AM		**11.30 AM to 1.00 PM**		**2.30 to 4.00 PM**	
	Session 1		**Session 2**		**Session 3**	
04.01.2021 Monday	**Inaugural Session. Introduction to IoT and Sensors Dr. Manjunatha P** JNNCE, Shivamogga	**T e a**	**Installing Arduino IDE. Interfacing sensors, actuators with Arduino Uno (IR,LDR,PIR) Dr. Manjunatha P and Mr. Prashanth G S** JNNCE, Shivamogga	**L u n c h**	**Interfacing sensors, actuators with Arduino Uno (LCD,Temp,Servo motor) Dr. Manjunatha P and Mr. Prashanth G S** JNNCE, Shivamogga	
	Session 4		**Session 5**		**Session 6**	
05.01.2021 Tuesday	**Configuring Arduino IDE for Node MCU board usage. How to include library packages to Node MCU both online and offline. Node MCU as server, Access point Network Scanner. Mr. Benak Patel** JNNCE, Shivamogga.	**B r e a k**	**Onboard LED blink, Interfacing Sensors and actuators. Blynk App intro, adafruit io. MQTT intro, MQTT on Node MCU. Mr. Benak Patel** JNNCE, Shivamogga. **Mr. Ravitej Balekai** GMIT, Davangere	**B r e a k**	**MIT app inventor intro, App design using MIT app inventor and controlling on board LED. Mr. Benak Patel** JNNCE, Shivamogga.	
	Session 7		**Session 8**		**Session 9**	
06.01.2021 Wednesday	**Hands-on Session on Linux Operating System Dr. Chethan K R** JNNCE, Shivamogga.		**Introduction to Python Scripting Language and Hands on session Dr. Chethan K R** JNNCE, Shivamogga.		**Introduction to Raspberry Pi. Interfacing Sensors, Actuators with Raspberry Pi Mr. Benak Patel** JNNCE, Shivamogga.	
	Session 10		**Session 11**		**Session 12**	
07.01.2021 Thursday	**Quick prototyping: Building a quick POC of your idea. Using GDB and Autodesk TinkerCAD Mr. Koushik R Udupa** Ekathva Innovations Pvt. Limited, Shivamogga		**Security Aspects in IoT Dr. Anand babu J** MCE, Hassan.		**Stress Management Dr. Aravind S T** Positive Mind Clinic, Shivamogga.	
	Session 13		**Session 14**			
08.01.2021 Friday	**Blockchain Applications with IoT Dr. Kiran M** NITK, Surathkal		**A deeper look at IoT in smart city and other applications Dr. Kiran M** NITK, Surathkal		**Test, Feedback**	

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Department of Electronics and Communication Engineering
in association with
AICTE Training and Learning (ATAL)

You are all cordially invited for the Inauguration
of
Online Faculty Development Programme
on
"Building Smart Things by Leveraging IoT Technology"

Guests of Honour   **Sri. S. N. Nagaraja**
Secretary, NES, Shivamogga

Presided by   **Dr. Shashidhar K Kudari**
Principal, JNNCE, Shivamogga

Presence   **Dr. Manjunatha P**
Dean Academics, JNNCE, Shivamogga
Coordinator, ATAL FDP.

Dr. M M Rajath Hegde
Dean Infrastructure, JNNCE, Shivamogga

Dr. Sathyanarayana S V
Professor and HOD, Dept. of ECE, JNNCE, Shivamogga

Co-Coordinators
Dr. S Pramod Kumar
Associate Professor, Dept. of ECE, JNNCE, Shivamogga
Mr. Benak Patel M P
Assistant Professor, Dept. of ETE, JNNCE, Shivamogga
Mr. Darshan K V
Assistant Professor, Dept. of ECE, JNNCE, Shivamogga

Date: 04-01-2021
Time: 09:30 AM
Venue: AD Block Meeting Room
GoToMeeting ID**: https://global.gotomeeting.com/join/685807397**

HOD and Staff Members of E&C

Registration for OnLine Faculty Development Programme on "Building Smart Things by Leveraging IoT Technology"

04th to 08th January 2021

Participants are requested to register through the link https://www.aicte-india.org/atal only. Participants are abide by the rules and regulations governing the AICTE sponsored FDP on "**Building smart Things by Leveraging IoT Technology**" Program. Attendance of 80% is compulsory and scoring of 60% and above marks in test conducted at the end of the FDP are only eligible for obtaining the Certificate.

Registration

Registration is free of cost.
The number of participants is limited to 200 on first come first serve basis.
Last Date for Registrations : 03rd January 2021.

ELIGIBILITY FOR PARTICIPATION

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

Chief Patrons

Sri A. S. Vishwanatha, President, NES, Shivamogga
Sri T. R. Ashwathanarayana Setty, Vice President, NES. Shivamogga
Sri S. N. Nagaraja, Secretary, NES, Shivamogga
Sri D. R. Amarendra Kiriti, Joint Secretary, NES Shivamogga
Sri C. R. Nagaraj, Treasurer, NES Shivamogga

Patrons

Dr. P. Manjunatha, Principal, JNNCE, Shivamogga
Dr. Sathyanarayana S. V., Professor & HoD, Dept. of ECE, JNNCE, Shivamogga

Coordinator

Dr. P. Manjunatha, Principal, JNNCE, Shivamogga

Co-Coordinators

Dr. S. Pramod Kumar, Associate Professor, Dept. of ECE, JNNCE
Mr. Benak Patel M. P., Assistant Professor, Dept. of ETE, JNNCE
Mr. Darshan K. V., Assistant Professor, Dept. of ECE, JNNCE

Organising Committee

All Teaching and Non Teaching Staff of Electronics & Communication Engineering Department

Address for Communication

Dr. S. Pramod Kumar, Associate Professor, Dept. of ECE, JNNCE
Phone : 9900312176
E-mail : pramodkumars@jnnce.ac.in

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AICTE Training and Learning (ATAL) on Line Faculty Development Programme on "Building Smart Things by Leveraging IoT Technology"

04th to 08th, January, 2021

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Department of Electronics & Communication Engineering
J N N College of Engineering, Shimoga - 577204

About JNNCE

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

About the Department

The Department of Electronics and Communication Engineering was started in the year 1980. The ECE department has been recognized as research center under which research scholars are pursuing Ph.D under VTU Belgaum.

The Department is accredited by National Board of Accreditation (NBA) for the period 2019 to 2022 The department has well qualified, experienced and dedicated faculty to provide quality industry tuned education to the students.

Department Vision

To be a premier centre of education and research in Electronics and Communication Engineering for producing competent engineers to cater to the needs of industry and society.

Department Mission

Impart quality education through innovative and continuous teaching – learning process. Groom the students with required foundations of Electronics and Communication Engineering and inculcate in them the professional ethics and human values. Train the students and the faculty in state-of-the-art technologies and motivate them for higher studies and innovation-based research for the needs of the industry and society. Create centres of excellence in the field of Electronics and Communication Engineering in collaboration with the industries and academic organizations.

About the FDP

Internet of Things (IoT) is a new revolution of the Internet. It is a network of physical devices, vehicles, home appliances, and other items embedded with electronics, software, sensors, actuators and network connectivity which are linked to create smart environments. It allows objects to be sensed and controlled remotely across existing network infrastructure. Also, it is creating opportunities for more direct integration of the physical world into computer-based systems, which results in improved efficiency and accuracy. One of the key learning platforms for IoT is the Raspberry Pi. The RasPi is a popular platform because it offers a complete Linux server in a tiny platform for a very low cost. In fact, one of the most difficult parts of using Raspberry Pi for learning about IoT is picking the right projects with which to begin. The workshop will give the platform to understand and use Raspberry Pi for IoT applications.

Tentative Topics to be Covered (but not limited):
- Understand the rudiments of IoT
- IoT Architecture and Technologies
- IoT Security
- IoT applications and services
- IoT in Health care
- The Arduino or Galileo processor Platform

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Department of Electronics & Communication Engineering

Date: 19-01-2021

<u>Submitted to the Principal:</u>

Subject: Payment of expenses towards ATAL FDP

The Department of Electronics and communication Engineering has successfully completed the FDP on **Building Smart Things by Leveraging IoT Technology"** during 04-01-2021 to 08-01-2021 sanctioned under ATAL scheme. Dr. Manjunatha. P, Professor & Dean Academics is the coordinator of the FDP. A fund of Rs 93,000 had been sanctioned as the cost for conducting the FDP. The fund has been divided into the following as per the guidelines given by the ATAL academy.

Sl No	Description	Amount in Rs
01	Honorarium for the director	10,000
02	Honorarium for the coordinator	10,000
03	Honorarium for experts	42,000
04	Payment for lab attendant	1,000
05	Institutional Charges	15,000
06	Miscellaneous charges	15,000
Total Remuneration		93,000

It is requested to make the payment of total sum of Rs Ninety Three thousand only towards the respective charges as per the breakup shown in the table.

Dr. Manjunatha. P
Professor & Dean
Academics,
FDP Co-coordinator
Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Dr. Sathyanaryana. S. V
Professor & HOD,
ECE Department
Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Dr. Shashidhar. K. Kudari
Principal,
JNNCE Shivamogga

Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   **_VOUCHER_**   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** _the sum_

_of Rs._: 10,000/-   (Rupees Ten thousand only

By Cash/Cheque No.: _Dated_ :

towards Honorarium for the Co-ordinator

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Dr. Manjunatha. P   Dept.: ECE Department
           JNNCE, Shivamogga

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

" Passed for payment "

PRINCIPAL
JNNCE, SHIVAMOGGA

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

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Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)*

Department of Electronics & Communication Engineering

Date: 19-01-2021

<u>**Submitted to the Principal:**</u>

Subject: Honorarium for the experts

The FDP on **Building Smart Things by Leveraging IoT Technology"** conducted during 04-01-2021 to 08-01-2021 had fourteen sessions. Nine resource persons were invited to deliver lecture during the sessions. In the sanctioned budget, around Rs 42,000 is utilized for providing the honorarium for the resource persons. The breakup for the honorarium is as indicted below. The details of the resource persons and the corresponding vouchers are enclosed.

Sl No	Resource Person	No of Sessions	Remuneration Amount in Rs
01	Dr Manjunatha. P	02	6,000
02	Mr Prashanth. G. S	01	3,000
03	Mr Benak Patel M. P	03	9,000
04	Mr Raviteja Balekai	01	3,000
05	Dr Chethan. K. R	02	6,000
06	Mr Koushik. R. Udupa	01	3,000
07	Dr Anand Babu. J	01	3,000
08	Dr Aravind. S. T	01	3,000
09	Dr Kiran. M	02	6,000
Total honorarium			42,000

It is requested to make the honorarium payment of total sum of Rs Forty two thousand only for the above said resource persons as per the breakup shown in the table.

Dr. Manjunatha. P
Professor & Dean
Academics
FDP Co-coordinator
Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
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Dr. Sathyanaryana. S. V
Professor & HOD,
ECE Department
Head of the Department
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SHIMOGA-577 204.

Dr. Shashidhar. K. Kudari
Principal,
JNNCE Shivamogga
Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

Resource Person Details

Resource Person Name	Dr Manjunatha. P
Designation	Professor and Dean Academics
Address	JNNCE Shivamogga
A/C Number	6322131000347
IFSC Code	CNRB0006322
Bank Name	Canara Bank
Branch Name	JNNCE Campus
Email ID	manjup.jnnce@gmail.com
Phone Number	9964378365
PAN Number	AIKPP6898H
ADHAR Number	756791455499

Resource Person Name	Mr. Prashanth. G. S
Designation	Assistant Professor
Address	JNNCE Shivamogga
A/C Number	6322131000511
IFSC Code	CNRB0006322
Bank Name	Canara Bank
Branch Name	JNNCE Campus
Email ID	prashanthgs@jnnce.ac.in
Phone Number	9008341321
PAN Number	AVOPP3524D
ADHAR Number	557673897660

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No.

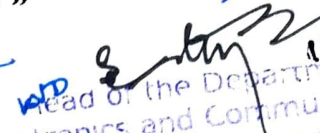*VOUCHER*   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum*

of Rs.: 6,000/-   (*Rupees* Six thousand only

By Cash/Cheque No.:   *Dated :*

towards Honorarium for resource persons

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : Dr. Manjunatha.P   *Dept.:* ECE Department

" *Passed for payment* "   JNNCE, Shivamogga

PRINCIPAL
JNNCE, SHIVAMOGGA.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
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Electronics and Communication
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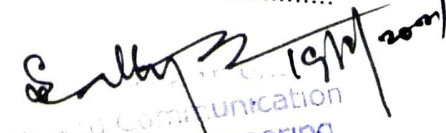
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No.

VOUCHER   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum*

of Rs.: 3,000/-   (*Rupees* Three thousand only

By Cash/Cheque No.:   *Dated :*

towards Honorarium for resource persons

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : Mr. Prashanth.G.S   *Dept.:* ECE Department

" *Passed for payment* "   JNNCE, Shivamogga

PRINCIPAL
JNNCE, SHIVAMOGGA.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Resource Person Name	Mr. Benak patel M P
Designation	Assistant Professor
Address	JNNCE Shivamogga
A/C Number	63221310000207
IFSC Code	CNRB0006322
Bank Name	Canara Bank
Branch Name	JNNCE Campus
Email ID	Benapk7@jnnce.ac.in
Phone Number	83174728 73
PAN Number	BETPB1289L
ADHAR Number	90555820624 2

Resource Person Name	Mr. Raviteja Balekai
Designation	Assistant Professor
Address	GMIT Davangere
A/C Number	64085251529
IFSC Code	~~CNRB06322~~ SBIN0040792
Bank Name	State Bank of India
Branch Name	Sn Layout Davangere
Email ID	ravitejb@gmit.ac.in
Phone Number	9739223504
PAN Number	ASZPB8814C
ADHAR Number	570311873269

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   ***VOUCHER***   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, *the sum*

of Rs.: 9,000/- .... *(Rupees* Nine thousand only ....

By Cash/Cheque No.: .... *Dated :* ....

towards Honorarium for resource persons

for K.V. Darshan

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Mr. Benak Patel. M.P   Dept.: E&TE Department

JNNCE, Shivamogga

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

" Passed for payment "

PRINCIPAL

JNNCE, SHIVAMOGGA.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   ***VOUCHER***   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, *the sum*

of Rs.: 3,000/- .... *(Rupees* Three Thousand only

By Cash/Cheque No.: .... *Dated :* ....

towards Honorarium for resource persons

for K.V. Darshan

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Mr. RaviTeja Balekai   Dept.: G.M.I.T, Davangere

Professor & Dean (Academics)
College of Engineering,
Savalanga Road,
gga-577 204.

" Passed for payment "

PRINCIPAL

JNNCE, SHIVAMOGGA.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Due to CovID-19, sessions
were online and voucher is certified by co-coordinator

Resource Person Name	Dr Chethan. K R
Designation	Assistant Professor
Address	JNNCE Shivamogga
A/C Number	6322131000411
IFSC Code	CNRB0006322
Bank Name	Canara Bank
Branch Name	JNNCE Campus
Email ID	chetankr@jnnce.ac.in
Phone Number	9900923050
PAN Number	AOKPK5378R
ADHAR Number	486615053891

Resource Person Name	Mr Koushik. R. Udupa
Designation	Co-Founder
Address	Ekathva Innovations Pvt Ltd Shivamogga
A/C Number	7452500100258801
IFSC Code	KARB0000745
Bank Name	Karnataka Bank Ltd
Branch Name	Shankar Matt Circle Branch, Shivamogga
Email ID	koushikudupa@gmail.com
Phone Number	9480039849
PAN Number	AISPU7728H
ADHAR Number	905440757080

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

VOUCHER

Date : 19/01/2021

No.

Received with thanks from *THE PRINCIPAL, JNNCE, SHIVAMOGGA, the sum*
of Rs. 6,000/- ...... (Rupees Six Thousand only.

By Cash Cheque No. ....   Dated : ....

towards Honorarium for Resource Persons

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : Dr. Chethan.K.R   Dept. CSE Department
                              JNNCE, Shivamogga

" *Passed for payment* "

PRINCIPAL
JNNCE, SHIVAMOGGA.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

VOUCHER

Date : 19/01/2021

No.

Received with thanks from *THE PRINCIPAL, JNNCE, SHIVAMOGGA, the sum*
of Rs. 3,000/- ...... (Rupees Three thousand only.

By Cash Cheque No. ....   Dated : ....

towards Honorarium for resource persons

for K.V.Darshan
Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : Mr. Kaushik.R.Udupa   Dept. Ekathva Innovations
                                 Shivamogga

" *Passed for payment* "

PRINCIPAL
JNNCE, SHIVAMOGGA.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Due to COVID-19, sessions were
online and voucher is certified by Co-Coordinator

Resource Person Name	Dr Anand Babu J
Designation	Associate Professor
Address	MCE Hassan
A/C Number	54040505219
IFSC Code	SBIN0041114
Bank Name	State Bank of India
Branch Name	Hassan Circle Branch
Email ID	abj@mcehassan.ac.in
Phone Number	9844081383
PAN Number	APJPA3489F
ADHAR Number	665819488392

Resource Person Name	Dr Aravind S T
Address	Positive Mind Clinic Shivamogga
A/C Number	100043739832
IFSC Code	INDB0000131
Bank Name	Indus Ind Bank
Branch Name	Shivamogga Branch
Email ID	draravind555@yahoo.co.uk
Phone Number	9886057055
PAN Number	ALZPA6250E
ADHAR Number	350609904361

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

VOUCHER

Date : 19/01/2021

No.

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, the sum

of Rs. 3,000/- (Rupees Three Thousand only

By Cash/Cheque No. .... Dated : ....

towards Honorarium for resource persons

For K.Y. Darshan
Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Dr Anand Babu J   Dept.: M.C.E, Hassan

" Passed for payment "

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

PRINCIPAL
JNNCE, SHIVAMOGGA.

19/1/2021

Head of the Department
Electronics and Communication
J N N College of Engineering
SHIMOGA-577 204

Due to COVID-19 sessions were

online and voucher is certified by Co-Coordinator

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

VOUCHER

Date : 19/01/2021

No.

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, the sum

of Rs. 3,000/- (Rupees Three thousand only

By Cash/Cheque No. : .... Dated : ....

towards Honorarium for resource persons

For K.Y. Darshan
Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Dr Aravind.S.T   Dept.: Positive Mind Clinic
Shivamogga

" Passed for payment "

Professor & Dean (Academics)
College of Engineering,
Savalanga Road,
mogga-577 204.

PRINCIPAL
JNNCE, SHIVAMOGGA.

19/4-2021

KVD Head
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Due to COVID-19, sessions were

online and voucher is certified by co-coordinator

Resource Person Name	Dr Kiran M
Designation	Professor
Address	NITK Suratkal
A/C Number	20007771670
IFSC Code	SBIN0002273
Bank Name	State Bank of India
Branch Name	NITK Branch
Email ID	kiranmanjappa@nitk.edu.in
Phone Number	7892990151
PAN Number	APZPK7681P
ADHAR Number	931451907850

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

Date : 19/01/2021

VOUCHER

No.

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA**, *the sum*

of Rs.: 6,000/- .... (*Rupees* Six thousand only ....

Dated : ....

By Cash/Cheque No.: ....

towards Honorarium for resource persons

For K.V. Darshan
Signature of Receiver

Head of Account : FDP on Internet of Things (IOT)

Name : Dr Kiran M .... *Dept.*: NITK - Suratkal

" *Passed for payment* "

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

PRINCIPAL
JNNCE, SHIVAMOGGA.

Rao of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Due to COVID-19, sessions were online and voucher is certified by Co-coordinator.

National Education Society (R.)

J N N College of Engineering, Shivamogga

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC –'B', UG programs:CE,ME,EEE,ECE,CSE,ISE,TCE acredited by NBA:1.7.2019 to 30.6.2022, Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Department of Electronics & Communication Engineering

Date: 19-01-2021

<u>Submitted to the Principal:</u>

Subject: Remuneration for the lab Attendant.

The FDP on **Building Smart Things by Leveraging IoT Technology"** conducted during 04-01-2021 to 08-01-2021 had fourteen sessions. In the allocated budget a sum of Rs 1,000 is allocated to remuneration for lab attendant engaged during the lab practices.

Starting from inaugural session till valedictory session, Mr Satish Kumar. H. G, Instructor, Department of ECE, JNNCE Shivamogga has been actively involved in setting up the camera and internet connections and providing necessary equipments and components during the demonstration in the sessions. It is requested to make the payment of Rs one thousand only as remuneration for lab attendant. The corresponding Voucher is enclosed.

Dr. Manjunatha. P	**Dr. Sathyanaryana. S. V**	**Dr. Shashidhar. K. Kudari**
Professor & Dean	Professor & HOD	Principal.
Academics,	ECE Department	JNNCE Shivamogga
FDP Co-coordinator	Head of the Department	Principal
Professor & Dean (Academics)	Electronics and Communication	
J.N.N. College of Engineering,	J.N N. College of Engineering	Jawaharlal
Navule, Savalanga Road,	SHIMOGA- 577 204	College of Engineering
Shivamogga-577 204.		

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

No.

VOUCHER

Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum of Rs.:* 1,000/- .... *(Rupees* one thousand only ....

By Cash/Cheque No.: .... *Dated :* ....

towards Remuneration for lab attendant

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : Mr. Satish Kumar. H. G *Dept.:* ECE Department
JNNCE, Shivamogga

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

" Passed for payment "

PRINCIPAL
JNNCE, SHIVAMOGGA.

HOD Head of the Department
Electronics and Communicati
J.N.N. College of Engineerin
SHIMOGA-577 204.

Date: 19-01-2021

Submitted to the Principal:

Subject: Institutional Charges

The Department of Electronics and Communication has organized an FDP on **"Building Smart Things by Leveraging IoT Technology"** during 04-01-2021 to 08-01-2021 AICTE ATAL scheme and completed successfully with the fullest cooperation of both the department and institution. The management also gave full support starting from the inception of the FDP till completion.

The budget sanctioned under the ATAL scheme has an allocation of Rs 15,000 as institutional charges. In this connection I request to credit the sum of Rs Fifteen Thousand only to our esteemed institution as an institutional charge. Corresponding voucher is attached.

Dr. Manjunatha. P
Professor & Dean
Academics
FDP Co-coordinator
Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Dr. Sathyanaryana. S. V
Professor & HOD,
ECE Department
Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Dr. Shashidhar. K. Kudari
Principal,
JNNCE Shivamogga

Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

No.

VOUCHER

Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** _the sum_
_of Rs._: 15,000/- .... (Rupees ....Fifteen Thousand only....................

....

By Cash/Cheque No.: .... Dated : ....

towards ...Institutional charges for providing e-facilities
and necessary infrastructure.

For Sd/—

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)

Name : ...Principal, JNNCE.................. Dept.: .....JNNCE

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

" _Passed for payment_ "

PRINCIPAL
JNNCE, SHIVAMOGGA.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

National Education Society (R.)
J N N College of Engineering, Shivamogga
(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC –'B', UG programs:CE,ME,EEE,ECE,CSE,ISE,TCE acredited by NBA:1.7.2019 to 30.6.2022, Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)
Department of Electronics & Communication Engineering

Date: 19-01-2021

<u>**Submitted to the Principal:**</u>

Subject: Payment of Miscellaneous charges

The FDP on **Building Smart Things by Leveraging IoT Technology"** conducted during 04-01-2021 to 08-01-2021 has been planned to conduct online. In the sanctioned budget, around Rs 15,000 is allotted for miscellaneous charges. Under this head, the allotted amount is used for purchasing the necessary items for the conduction of training sessions. Also the charges for auditing and acoount maintenance are also included under this head. The breakup for the miscellaneous charges is as indicted below. The invoice of the items purchased and the corresponding vouchers are enclosed.

SI No	Item Description	Remuneration Amount in Rs
01	Audit Charges	3,540
02	Accounting Charges	1,077
03	Logitech Web Camera C310 2032LZ57TE99	3,300
04	Digitek DTR 550 LW (67 inch) Tripod	1,449
05	XP pen Star03 V2 Graphics Drawing Tablet	5,134
06	Refreshment to Resource Persons	500
	Total Remuneration	15,000

It is requested to make the payment of total sum of Rs Fifteen thousand only towards miscellaneous charges per the breakup shown in the table.

Dr. Manjunatha. P
Professor & Dean
Academics,
FDP Co-coordinator
Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Dr. Sathyanaryana. S. V
Professor & HOD,
ECE Department
Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

Dr. Shashidhar. K. Kudari
Principal,
JNNCE Shivamogga
Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga

Tax Invoice/Bill of Supply/Cash Memo
(Original for Recipient)

Sold By :
Appario Retail Private Ltd
No. 1/B, IndoSpace Logistics Park, Puduvoyal,
Durainallur Village, Ponneri Taluk
Thiruvalluvar, Tamil Nadu, 601206
IN

PAN No: AALCA0171E
GST Registration No: 33AALCA0171E1Z6

Billing Address :
PRINCIPAL
JNN College Of Engineering, Savalanga Road,
Navule, Shivamogga, Karnataka 577204
Shivamogga, KARNATAKA, 577204
IN
State/UT Code: 29

Shipping Address :
PRINCIPAL
S Pramod Kumar
Associate Professor, Dept. of ECE, Jawaharlal
Nehru National College Of Engineering,
Shivamogga, KARNATAKA, 577204
IN
State/UT Code: 29
Place of supply: KARNATAKA
Place of delivery: KARNATAKA

Order Number: 405-6444747-2409966
Order Date: 22.12.2020

Invoice Number : IN-MAA4-3199989
Invoice Details : TN-MAA4-1034-2021
Invoice Date : 22.12.2020

Sl. No	Description	Unit Price	Discount	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	DIGITEK DTR 550 LW (67 Inch) Tripod For DSLR, Camera |Operating Height: 5.57 Feet | Load Capacity: 5kg | Portable Lightweight Aluminum Tripod with 360 Degree Ball Head | Case Included (Black) (DTR 550LW) | B074CWD7MS (B074CWD7MS) HSN:9620	₹1,227.97	₹0.00	1	₹1,227.97	18%	IGST	₹221.03	₹1,449.00
	Shipping Charges	₹16.95	-₹16.95		₹0.00	18%	IGST	₹0.00	₹0.00
TOTAL:								**₹221.03**	**₹1,449.00**

Amount in Words:
One Thousand Four Hundred Forty-nine only

For Appario Retail Private Ltd:

Authorized Signatory

Whether tax is payable under reverse charge - No

The above item is used as a camera stand for live demo during the sessions. The amount is paid by Dr. Pramod Kumar.S. It is requested to reimburse the same.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road
Shivamogga-577 204

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204

amazon.in

Tax Invoice/Bill of Supply/Cash Memo
(Original for Recipient)

Sold By :
Appario Retail Private Ltd
Renaissance industrial smart city, Kalyan Sape road, Vashere village, Amane post,, Bhiwandi taluka, Thane disctrict
Thane, Maharashtra, 421302
IN

PAN No: AALCA0171E
GST Registration No: 27AALCA0171E1ZZ

Billing Address :
PRINCIPAL
JNN College Of Engineering, Savalanga Road, Navule, Shivamogga, Karnataka 577204
Shivamogga, KARNATAKA, 577204
IN
State/UT Code: 29

Shipping Address :
PRINCIPAL
S Pramod Kumar
Associate Professor, Dept. of ECE, Jawaharlal Nehru National College Of Engineering, Shivamogga, KARNATAKA, 577204
IN
State/UT Code: 29
Place of supply: KARNATAKA
Place of delivery: KARNATAKA
Invoice Number : IN-BOM5-2419883
Invoice Details : MH-BOM5-1034-2021
Invoice Date : 22.12.2020

Order Number: 405-6444747-2409966
Order Date: 22.12.2020

Sl. No	Description	Unit Price	Discount	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	XP Pen Star03 V2 Graphics Drawing Tablet Pen Tablet (10"x6" Size, 8192 Levels of Pressure Sensitivity, Battery-Free Stylus, 8 Shortcut Keys and 8 nibs) | B017ATNRTY (B017ATNRTY)	₹4,350.85	₹0.00	1	₹4,350.85	18%	IGST	₹783.15	₹5,134.00
	HSN:8471	₹16.95	-₹16.95		₹0.00	18%	IGST	₹0.00	₹0.00
	Shipping Charges								
								₹783.15	₹5,134.00

TOTAL:

Amount in Words:
Five Thousand One Hundred Thirty-four only

For Appario Retail Private Ltd:

Authorized Signatory

Whether tax is payable under reverse charge - No

The above item is used as writing instrument during demonstration sessions. The amount is paid by Dr. Pramod Kumar. S. It is requested to reimburse the same

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shimogga-577 204

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204

Page 1 of 1

GSTIN/UIN : 29DZSPP4376Q1ZW   08182-400228

PATIL COMPUTERS

3RD Parallel Road, Durgigudi, Shivamogga-577201

No.PC2020-21/044   **TAX INVOICE**   Date:23/12/2020

To,
    The Principal
    JNNCE
    Shimoga

SI	Description of goods	Qnty	Rate	Amount
1	Logitech Webcam C310 2032LZ57TE99	1	2,797.00	2,797.00
			TOTAL	2,796.00
			CGST@9%	251.50
			SGST@9%	251.50
			Grand Total	**3,300.00**

Amount in words Rs_
Three Thousand Three Hundred Only.

BANK : Statebank of india
A/c : 39614566084
IFSC : SBIN0016447

Declaration:

We declare that this invoice shows the actual Price
of the goods described and that all particulars
are true and correct.
SUBJECTED TO SHIMOGA JURISDICTION

For PATIL COMPUTERS

Authorised Signatory

The above item is used for live demonstration during the sessions. The amount is paid by Dr. Pramodkumar. S. It is requested to reimburse the same.

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   **_VOUCHER_**   Date : 5/1/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum*
of Rs.: 500/- .... (*Rupees* Five hundred only ....

....

By Cash/Cheque No.: .... *Dated :* ....

towards ..... ATAL FDP lunch for resource Persons ....

Signature of Receiver
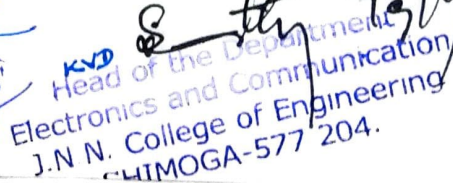
Head of Account : FDP on Internet of things (IoT)
Name : Dr Pramod Kumar. S   *Dept.:* ECE Department

JNNCE Shivamogga

" Passed for payment "

PRINCIPAL
JNNCE, SHIVAMOGGA

Professor & Dean (Academics)
J.N.N. College of Engineering,
Navule, Savalanga Road,
Shivamogga-577 204.

Head of the Department
Electronics and Communication
J.N N. College of Engineering
SHIMOGA-577 204.

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   **_VOUCHER_**   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum*
of Rs.: 3,540 .... (Rupees Three thousand five hundred and fourty only

By Cash/Cheque No.: .... Dated : ....

towards Audit Charges

Far G

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : A. NARASIMHA MURTHY Dept.: CA Smg & Co,

" Passed for payment "

~~Professor & Dean (Academics)~~
~~J.N.N. College of Engineering,~~
~~Navule, Savalanga Road,~~
~~Shivamogga-577 204.~~

PRINCIPAL
JNNCE, SHIVAMOGGA.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

National Education Society(R.)

JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING

Navule, SHIVAMOGGA - 577 204, Karnataka.

No.   **_VOUCHER_**   Date : 19/01/2021

Received with thanks from **THE PRINCIPAL, JNNCE, SHIVAMOGGA,** *the sum*
of Rs.: 1077/- .... (Rupees One thousand seventy seven only

By Cash/Cheque No.: .... Dated : ....

towards Accounting Charges

Signature of Receiver

Head of Account : FDP on Internet of Things (IoT)
Name : Manjunatha C Dept.: accounts

" Passed for payment "

~~Professor & Dean (Academics)~~
~~J.N.N. College of Engineering,~~
~~Navule, Savalanga Road,~~
~~Shivamogga-577 204.~~

PRINCIPAL
JNNCE, SHIVAMOGGA.

Head of the Department
Electronics and Communication
J.N.N. College of Engineering
SHIMOGA-577 204.

National Education Society (R.)

J N N College of Engineering, Shivamogga

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC – 'B', UG programs:CE,ME,EEE,ECE,CSE,ISE,TCE acredited by NBA:1.7.2019 to 30.6.2022, Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Department of Electronics & Communication Engineering

Date: 19-01-2021

FDP Report

The Department of Electronics and Communication has organized an online FDP on "Building Smart Things by leveraging IOT Technology" from 04-01-2021 to 08-01-2021 sanctioned under ATAL scheme by AICTE under the coordination of Dr. Manjunatha P. Prof & Dean Academics JNNCE Shivamogga. Dr Pramod Kumar. S. Associate Professor, Department of ECE, Mr. Benak Patel. M. P, Assistant Professor, Department of E&TE and Mr. Darshan. K. V. Assistant Professor, Department of ECE assisted the workshop as co-coordinators. Around 190 participants from various parts of the country registered to the workshop

The FDP was inaugurated in the graceful presence of Sri S N Nagaraja, Secretary NES, as the guest of honour, Dr Sathyanarayana. S. V., Prof and Head Department of ECE and Dr Manjunatha. P Professor and Dean Academics and Coordinator of the FDP. In his inaugural address Sri S N Nagaraja pointed out the importance of the FDP for the academia. Dr Sathyanarayana. S. V gave an overview about the institution and Department. Dr Manjunatha P highlighted the need of the FDP and gave information about the rules and schedule of the FDP.

The inauguration was immediately followed by a session on introduction to IOT and various sensors. The session was handled by Dr Manjunatha P. The session 2 and session 3 of the day 1 of the FDP was completely dedicated to the installation of Arduino IDE, interfacing various sensors to Arduino. Mr Prashanth G. S, Assistant Professor, Department of ECE and Mr Benak Patel. M. P, Assistant Professor, Department of E&TE under the guidance of Dr. Manjunatha. P handled the sessions with demonstration.

The day 2 started with the introduction to the proteus design suite and also demonstrated the working under proteus environment by conducting simple experiments. This was followed by a session on Node MCU by Mr Raviteja Balekai, Assistant professor, Department of ECE, GMIT Davanagere. The session included also interfacing sensors with Node MCU along with demonstration. The afternoon session was handled by Mr. Benak Patel. M. P where usage of online platforms like IFTT, ADAFRIUT.IO and BLYNK were introduced.

The Day 3 session was handled by Mr Chethan K R Assistant professor, Department of ECE, JNNCE Shivamogga and he gave an overview of the Linux OS environment and it's associated

commands. This was followed by an introduction to python scripting language and demonstrated various codes. The post lunch session was again handled by Mr. Benak Patel. M. P where he introduced the Raspberry Pi and demonstrated interfacing various sensors to Raspberry Pi. Also SCRATCH PLATFORM was also discussed.

The first session on day 4 was handled by Mr. Koushik. R. Udupa, Ekathva Innovations Pvt. Limited, Shivamogga. He discussed quick prototyping of IOT ideas without any sensor interface. Also he gave an overview of Tinker cad online simulator. This was followed by a technical talk on Security Aspects in IOT by Dr Anand Babu J, Associate Professor Department of ISE, MCE Hassan. The afternoon session was on stress Management by Dr Aravind S T, Positive Mind Clinic, Shivamogga.

The day 5 session started with the application of IOT in various fields and was handled by Mr Rahul Kumar and Mr Tyson. The talk was mainly concentrated on the IOT application in agriculture. The last session of the workshop was on block chain technology by Dr Kiran M, from NITK suratkal.

The valedictory session was presided by Dr Shashidhar S Kudri, Principal JNNCE Shivamogga. Dr M.M Rajath Hegde, Dean Infrastucture, Dr Manjunatha P, Dean Academics and FDP Coordinator, Dr Sathyanarayana S V Professor and Head, Department of Electronics and communication were present. In his presidential address he appreciated the enthusiasm of the participants and encouraged the department to organize such ATAL sponsored FDPs in a timely manner. In the feedback session participants told that they were very much benefitted by the sessions as almost all sessions included the demonstration. They also expressed that all the sessions were very systematically delivered and all queries were answered in time.

Dr. Manjunatha. P
Professor & Dean
Academics,
FDP Co-coordinator
Professor & Dean (Acad
J.N.N. College of Engin
Navul Savalanga I
Sh..... ogga-577 20..

KVD
Dr. Sathyanaryana. S. V
Professor & HOD,
ECE Departmen
Head of the Department
Electronics and Communication
J.N N. College of Engineering
SHIMOGA 577 204

Dr. Shashidhar. K. Kudari
Principal.
JNNCE Shivamogga
Principal
Jawaharlal Nehru National
College of Engineering, Shivamogga.

Jawaharlal Nehru National College of Engineering
(National Education Society (R.))
Navule, Savalanga Road,
Shimoga - 577204
GST: 29AAABN0155B1Z1
E-Mail : principal@jnnce.ac.in

Receipt Voucher

No. : MR201261

Dated : 14-Dec-2020

Particulars	Amount
Account :	
Other Grants (Internal)	93,000.00

Through :

Canara Bank A/c No. 28

On Account of :

Regional Officer, SWRO, Bengaluru - for AICTE
Training and Learning (ATAL) Academy Prgoramme
online FDP for Dept of ECE - Co-ordinator, ECE dept

Amount (in words) :

INR Ninety Three Thousand Only

₹ 93,000.00

Authorised Signatory

All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi-110070
110070/Website: www.aicte-india.org

ATAL

AICTE Training and Learning (ATAL) Academy; (Online FDP)

F.No. 01/AICTE/ATAL-HQ/2020-21/163/

Date:07th December, 2020

To

The Principal,
JNN College of Engineering,
Navule, Savalanga Road,
Shivamogga - 577204

Sub: Release of a sum of Rs. 93,000 /- for AICTE Training and Learning (ATAL) Academy programme Online FDP of Nine Thrust Areas and Other Emerging Areas.

Sir,

This is to convey the sanction of the Council for payment of **Rs. 93,000 /-** (Rupees Ninety - Three **Thousand** Only) for conducting of online **AICTE Training and Learning (ATAL) Academy Programme** (INTERNET OF THINGS (IoT)) to JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING, SHIVAMOGGA, under **AICTE Training And Learning (ATAL) Academy.**

This fund is being released in conformity with the terms & conditions as well as norms of the scheme as already communicated, and also being communicated in this letter.

The instructions/guidelines to be followed by University/Institution

I. Release of funds and maintenance of accounts

a. The University/College/Institute shall maintain proper accounts of the expenditure out of the grants, which shall be utilized only on approved items of expenditure.

b. The cost for conducting per programme will be Rs. 93,000/- as per detail given as under:

1.	Honorarium for Director	Rs.	Rs. 10,000/-
2.	Honorarium to Co-ordinator Rs.2000/- per day x 5 days	Rs. 10,000/-	
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-	
4.	Provision for payment to Lab Attendant engaged during lab practices	Rs. 1,000/-	
5.	Institutional charges	Rs. 15,000/-	
6.	Miscellaneous charges	Rs. 15,000/-	
	TOTAL	Rs. 93,000/-	

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

Programmes having permission to change amounts under different heads with overall ceiling of Rs. 0.93 lakh being intact.

II. Disbursement of funds to institutions

The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University/Institute after submission of mandate form

III. Conduct of test and issuance of certificate

☑ A test shall be conducted by coordinator at the end of the program.
☑ The certificates shall be issued to those participants who have attended the program with minimum 80% of attendance and scored minimum 60% marks in the test.

P.T.O..........

Regional Officer
South Western Regional Office,
All India Council for Technical Education

IV. Submission of documents by university/institution

a. The following mandatory relevant documents are required to be submitted by the university/institution within one month of the completion of the program: -

   (i) List of candidates who have successfully completed the program on the basis of the test conducted by Program Coordinator.

   (ii) A program completion report along with photographs, videos, media report is to send after the completion of workshop along with the list of participants and Utilization Certificate, Expenditure Statement and feedback form etc. within one month of conduct of **AICTE Training and Learning (ATAL) Academy programme.**

b. The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall to adjust.

V. General Instructions

a. **Maximum 200 participants** may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less number of participants depending on the feasibility.

b. A test has to be conducted (may be online) on the last day and those who score more than 60% will be termed as successful candidates. Those who have **attendance 80% or more and also score more than 60% in the test will be issued a digital certificate.**

c. These **online sessions are to be recorded** as the facility is available on the software which is being used for online delivery of FDP. You are also requested to share recording of sessions with AICTE.

d. **Eligibility for Participants:**

   (i) The faculty members of the AICTE approved institutions, research scholars, PG, Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.

   (ii) Not more than 30% from Host Institution

e. If programme is not conducted in the year 2020 only, the released amount, along with interest accrued thereon, has to be returned back to AICTE.

f. Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.

g. FDP title name, name of coordinator, Institute name is not allowed to change without permission.

This Sanction Order may be treated as Offer Letter for all purposes.

Yours sincerely,

[signature]

Regional Officer
SWRO, Bengaluru
Regional Officer
South Western Regional Office
All India Council for Technical Education
Bangalore

Copy forwarded for information and necessary action to: -

1. Coordinator ATAL Programme
2. ATAL Academy Cell AICTE HQ
3. Guard File

All India Council for Technical Education

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110070

Mandate Form for Institute/College/University/Other Organisations

2	Name of the Beneficiary Institute	JNN College of Engineering
3	Permanent Id of Institute, if any	1-8198061
4	Head of Institute (Tick one)	Director/Registrar/Principal/Others (Please Specify)
5	Type of Institute (Tick one)	Govt./Govt. aided/self Finance/Private etc.
6	Address of the Institute	Navule, Savalanga Road, Shivamogga.
7	PAN No. of the Institute	AAABN0155B
8	GST No., if allotted	29AAABN0155B1Z1
9	E-mail id of Head of Institute	principal@jnnce.ac.in
10	Name of the Bank	Canara Bank
11	Branch Name & Bank Code	JNNCE Campus, Branch Code: 6322
12	Address of Bank with PIN Code	JNNCE Campus, Savalanga Road, Shivamogga- 577204
13	Telephone No. of the Bank	08182-222505
14	Name of the Account Holder with Designation	Principal, JNNCE
15	Account Type (Tick One)	Savings/Current
16	Account Number	63221010000028
17	Bank Branch IFSC Code	CNRB0006322
18	Bank Branch MICR Code	577015218
19	Whether the Account is in the Name of Beneficiary Institute (Tick One)	Yes/No
20	Whether the Account is Operational (Tick One)	Yes/No
21	Whether the Account is No-Frill Account (Tick One)	Yes/No
	Whether the Account is a Joint Account (if yes, give details)	Yes/No

It is declared that all the information provided above are true and complete in all respects.

Signature of Account Holder with Designation

Or Authorised Signatory **Principal**

With Institute Seal Jawaharlal Nehru National College of Engineering, Shivamogga.

Date:- 1 DEC 2020

Certified that the above details are verified on (date)........01.12.2020

For CANARA BANK

(Banker's Signature with Seal)

Manager

Co-ordinator

manjup.jnnce@gmail.com

- Submitted Applications
- Profile
- Workshops
- Participants
- Test Marks
- Feedbacks
- Attendance Preview

Co-ordinator

Co-ordinator Details

Name:	Dr. Manjunatha P
Gender:	Male
Date of birth:	1968-06-01
Father's Name:	PARAMESHWRAPPA
Phone:	9964378365
Whatsapp Number:	9964378365
Email:	manjup.jnnce@gmail.com
Alternate Email:	manjunath_p@jnnce.ac.in
Designation:	Professor
Specialistaion:	Wireless Sensor networks
Experience of Teaching:	20 Years 6 Months
Address:	Professor & HOD ECE Department JNN College Of Engineering Shimo 577204
Pincode:	577204

Institute Details

Institute Name :	JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING
Institute Address :	JNN COLLEGE OF ENGINEERING NAVULE SHIMOGA
Institute State :	KARNATAKA
Institute District:	Shimoga
Institute Pincode:	577204
Institute Town/Village:	SHIMOGA
Institute Type:	Private Unaided
Intake Capacity:	720

No. of Labs:	48
Institute Website:	www.jnnce.ac.in
Institute Head Name:	Dr. H R MAHADEVASWAMY
Institute Head Mobile:	7829034158
Institute Head Designation:	PRINCIPAL
Institute Head Email:	principal@jnnce.ac.in
Institute NIRF Ranked:	No
Institute NAAC Accredited:	No
Institute NBA Accredited:	Yes

FDP Proposal Details

Area:	Engineering
Sub Area:	Internet of Things (IoT)
FDP Start Date:	2020-07-13
FDP End Date:	2020-07-17
Conducted ATAL:	No
Download Brochure File	**Download Brochure File**
Download Consent Letter File	**Download Consent Letter File**
No. of Tentative Resource Person(s)	6

Name	Number	Email	Specializtaion	State	City
Dr. Kiran M	9886539400	kiranmanjappa@nitk.edu.in	Department of information Technology	KARNATAKA	Udupi
Dr. Manjunatha P	9964378365	manjunath_p@jnnce.ac.in	Electronics and Communication Engineering	KARNATAKA	Shimog
Mr. Benak Patel. M. P	9538527538	benapk7@jnnce.ac.in	Electronics and Telecommunication engineering,	KARNATAKA	Shimog
Dr. Chetan K. R	9900923050	chetankr@jnnce.ac.in	Computer Science & Engineering	KARNATAKA	Shimog
Mr. Raghudathesh G P	7411459249	raghudathesh.gp@manipal.edu	Information Sciences	KARNATAKA	Udupi

Name	Number	Email	Specializtaion	State	City
Mr. Shreepathy H V	9980555504	sreepathy.hv@manipal.edu	Information Sciences	KARNATAKA	Udupi

Name	Number	Email	Specializtaion	State	City
Mr. Shreepathy H V	9980555504	sreepathy.hv@manipal.edu	Information Sciences	KARNATAKA	Udupi

ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ಸಮಿತಿ(ರಿ.), ಶಿವಮೊಗ್ಗ

National Education Society(R.,) Shivamogga.

Jawaharlal Nehru National College of Engineering, Shivamogga

ಜವಾಹರ್‌ಲಾಲ್ ನೆಹರು ರಾಷ್ಟ್ರೀಯ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯ, ಶಿವಮೊಗ್ಗ

(Approved by A.I.C.T.E.New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC - 'B', Recognised by Govt. of Karnataka and Affiliated to VTU, Belagavi)

Ref. No.: JNNCE/ECE | 1989 | 2019 -20 .

Date:13-03-2020
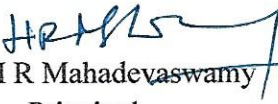
To,
The Director,
AICTE Training and Learning (ATAL) Academies,
All India Council for Technical Education,
New Delhi.

Sub: Proposal to organize AICTE Training and Learning (ATAL) FDP at Jawaharlal Nehru National College of Engineering, Shimoga

Dear Sir,

 I am pleased to propose an **AICTE Training and Learning (ATAL) FDP** at our institute on "Building Smart Things by Leveraging IoT Technology" from 20-07-2020 to 24-07-2020. The proposed FDP, if approved, will be coordinated by Dr. Manjunatha P.

Sincerely,

Dr. H R Mahadevaswamy
Principal
JNNCE, Shivamogga
Principal
Jawaharlal Nehru
National College of Engineering
Shivamogga.

SCHEME DOCUMENT

AICTE Training and Learning (ATAL) Academy
Online Faculty Development Programme (FDP)

1.1		**Objectives**
	(a)	To plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.
1.2		**Eligibility**
1.2a		**For Institutions (Both Technical & Non-Technical)**
	(a)	The government funded institutions like IITs, IIMs, NITs, IITs, Central Universities, State Universities/Institutions, other government organizations and private organization /institutions having NIRF upto 100 or NAAC grade "A+ and higher" or Departments of institutions having NBA accredited.
	(b)	Coordinator must be a full time regular faculty/instructor/trainer etc. & having knowledge and experience to conduct online fdp through any available software.
1.2b		**For Participants**
	(a)	The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry etc.)and staff of host institutions.
	(b)	Not more than 30% from Host Institution.
	(c)	Preference will be given to new participants.
	(d)	Maximum 200 participants may be allowed to attend online FDP on a first come first serve basis however AICTE officials may be allowed to attend over and above 200 number. Coordinators are free to admit less no depending on the feasibility.
1.3		**Duration of Project**
	(a)	The proposed/approved online FDP shall be conducted within financial year from the date of receipt of offer letter. The Duration of the online FDP shall be 05 days. Multiple online FDP may be conducted on the same area.
1.4		**Limit of funding**
	(a)	Rs. 93,000/- (Ninety Three Thousand) only
1.5		**Disbursement of the Funds**
	(a)	The full amount of the grant sanctioned will be released as an advance to the University/Institute through electronic transfer on the account of the University /Institute after submission of mandate form and a request letter.
1.5a		**Release of Funds and Maintenance of Accounts**
	(a)	The cost for conducting per programme will be Rs. 93,000/- as per detail given as Under (Programmes having permission to change amounts under different heads with overall ceiling of Rs 0.93 lakh being intact -

1.	Honorarium for Director	Rs. 10,000/-
2.	Honorarium to Co-ordinator Rs.2000/- per day x 5 days	Rs. 10,000/-
3.	Honorarium for experts (Rs.3000 per session for total 14 session)	Rs. 42,000/-
4.	Provision for payment to Lab Attendant engaged during lab practices	Rs. 1000/-
5.	Institutional charges	Rs. 15,000/-
6.	Miscellaneous charges	Rs. 15,000/-
	TOTAL =	**Rs. 93,000/-**

	(b)	The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma to be submitted by the University/College/Institution.
1.6		**Types of Training**
	(a)	Online Training related to thrust areas and various emerging areas. (various thrust areas and emerging areas uploaded on the ATAL Website)
	(b)	Institutions/Coordinator of ATAL Academy will conduct total 14 sessions in five days and (three sessions every day and one session may be utilized for feedback and assesment). Coordinator will be free to invite experts for 1-1.5-hour compulsory session on the mental & emotional development, stress management, meditation, human values and ethics, health and happiness etc. which may be conducted by any spiritual social organizations/Individuals like Art of living or similar organization to promote FIT INDIA Movement across the country.
	(c)	Coordinator may use any available software (Google Meet/WebEx/MS Team/ Go to Webinar etc.) for smooth conduction of online fdp, also he/she may explore any other available software.
1.7		**Processing Methodology:**
	(a)	The proposal shall be assessed by an Expert Committee.
1.8		**Submission of documents by University/Institution**
	(a)	The funds under the scheme are released in advance. The coordinator of the FDP requires to submit the receipt of the following documents through portal.

    (i) Compulsory Online Feed-back of all the participants through portal.

    (ii) List of the candidates who have successfully completed the program on the basis of the test conducted by program coordinator *through portal.*

    (iii) A program completion report along with photographs, videos, media report is to send after the completion of workshop *(Report sample will be shared with program coordinator).*

    (iv) Utilization Certificate & Expenditure Statement only with the heads shared in point 1.5a (b) *(Sample will be shared with Program coordinator).*

    (v) Photographs and Link of recorded fdp video and link of video of some participant's feedback after uploading it on YouTube.

    (vi) News/Media/Magazine cuttings/clippings.

    (vii) LOGO of the institutions *(JPEG/JPG/PNG. format)*

    (viii) Scanned Signature of the coordinator *(black in color)* with white background.

    (ix) Supporting bills/documents and paid vouchers on account of expenses incurred for the purpose.

    (x) Copies of proceedings.

    (xi) Result of examination conducted.

    (xii) The above documents should be the Coordinator of the Programme.

	(b)	The University/Institution/Program Coordinator should submit the documents within 30 days after of the conduct of the event.
	(c)	Utilization Certificate (UC) & video DVD/CD/Pen drive (of online recorded fdp and feedback of few participants) has to be sent in original to the concerned regional office within one month of completion of program.
	(d)	The amount of the grant shall be adjusted on submission of utilization certificate & detailed expenditure statement by University/Institution. On receipt of these documents, the total amount of financial assistance, admissible as per the norms, shall be worked out and grant-in-aid shall be adjusted.
1.9		**Test and Certificate**
	(a)	A test shall be conducted (may be online) by coordinator at the end of the program.
	(b)	The certificates shall be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.
1.10		**Collaboration**
		Institute may offer online training programme in collaboration with other organisation /Institution/Industry/Individual (with country or abroad) which have expertise in that area
1.11		**Terms and conditions**
		For conducting a FDP following is essential:
	(a)	Coordinator is the overall responsible for document submission and smooth coordination of ATAL FDP.
	(b)	Coordinators are requested to allow new participants and discourage participants who have already done one online ATAL FDP earlier.
	(c)	The online sessions are to be recorded as the facility is available on the software which is being used for online delivery of FDP. Coordinators will be also share recording of sessions and some participant's feedback about online FDP with AICTE.
	(d)	Funds once released/sanctioned for organizing the particular topic/ area of FDP cannot be utilized for any other programme.
	(f)	In case the event is cancelled, the funds will be returned back to AICTE immediately with interest accrued.
	(g)	Any unavoidable circumstantial change in the Program with respect to name of Project Coordinator, Venue and date for organizing AICTE Training And Learning (ATAL) Programme would mandatorily require prior approval of the Council. All such requests should be addressed to ATAL Academy, in advance, recording the specific reasons for proposed changes, failing which the offer for the grant already issued would be treated as automatically withdrawn and the financial assistance released in favour of the beneficiary institution shall be refunded immediately to the Council.
	(h)	Any extra money required to complete the programme must be borne by the institute from their own resources but the quality of the activities should not be compromised.