

Registration form

**Two Days Workshop on
IoT, a Hands-on approach**

04th -05th November 2017

Name:

USN:

Department:

Email-ID:

College:

Mobile No:

DD No.:

Date:

Bank:

Accommodation: Yes/No

Date:

Place:

Signature of the Applicant

**Signature
Head of Department
(with seal)**

Organizing committee

Dr. Mahadevaswami H. R.

Principal

Dr. Manjunatha P.

HOD, ECE Department

Dr. Ushadevi M. B

HOD, TCE Department

Mr. Sharath S. M

Asst Prof, ECE Department

Mr. Abhijith N.

Asst Prof, ECE Department

Mr. Benak Patel M. P.

Asst Prof, TCE Department

Mr. Pradeepa S. C.

Asst Prof, ECE Department

Mrs. Shwetha H. R.

Asst Prof, ECE Department

Mr. Prashanth G.S.

Asst Prof, ECE Department

TWO DAYS WORKSHOP

on

IoT, a Hands-on approach

04-11-2017 to 05-11-2017



**Dept. of Electronics &
Communication Engg**

&

**Dept. of
Telecommunication Engg.**

**Jawaharlal Nehru
National College of
Engineering
Shivamogga 577204,
Karnataka**

In Association with

**The Institution of
Electronics and
Telecommunication
Engineers, Shivamogga
Center**

&

Spectrum, JNNCE



college

was established in the year by the National Education Society. The college is affiliated to VTU, Belgaum and recognized by AICTE, New Delhi. It offers 7 UG and 7 M. Tech Program besides MBA and MCA. It has 7 Research centers recognized by VTU. The college is regarded as one of the excellent centers for technical education and research. J. N. N. C. E is ranked 47th among top 75 engineering colleges in India and 8th in Karnataka as per OUT Look –MDRA ranking survey 2017 consecutively.

About the Department

The Department of Electronics & Communication Engineering was started in the year 1980 and Telecommunication Engineering was started in the year 2000 with an intake of 120 and 60 respectively.

About the Programme

With the wide availability of Broadband Internet, the cost of connecting more devices to internet has drastically reduced. Internet of Things has thus emerged, allowing any device to be connected to the internet, with -

-an estimated number of over 100 billion devices connected to the internet within the next 5 years from now, we have faced challenges in IoT, such as reliability & security of data, network scalability, hard real-time operations, capabilities for massive storage, analysis of huge amounts of data, design of specific protocols to meet the QoS requirements in IoT, etc. The two- day workshop consists of lectures and demo sessions to elucidate the fundamentals of IoT

Overview of workshop:

- Basic programming using Arduino and NodeMCU
- Sensors and its applications
- Interfacing of sensors, Bluetooth and GSM with Arduino
- Introduction to Raspberry Pi and IoT
- Lab session on programming Raspberry Pi using PYTHON

Who can Participate?

Students studying in ECE/TCE/EEE/ CSE and ISE departments of Engineering and polytechnic colleges .

Registration details

The registration form should reach the convener, along with the registration

fee of Rs 1,000/-.

Accommodation is provided in college hostel /guest house at nominal charges.

The registration fee should be paid through DD drawn in the favor of “Principal, JNNCE”, Payable at “Shivamogga”.

For online registration

<https://iotectcjnnce2017-18.wikispaces.com/>

Account No.: 6322201000004

IFSC : CNRB0006322

Last date for Registration: 01.11.2017

Conveners

Mr. Pradeepa S C

Assistant Professor

Dept. of ECE,

J N N College of Engineering,

Cell : 9036496015

Email: pradeepasc@jnnce.ac.in

Mr. Benak Patel M P

Assistant Professor

Dept. of TCE

J N N College of Engineering

Cell : 9538527538

Email: benapk7@jnnce.ac.in



Jawaharlal Nehru National College of Engineering
Shivamogga 577204, Karnataka



सह वीर्यं करवावहे
Institution of Electronics &
Telecommunication Engineers

TWO DAYS WORKSHOP ON IOT, A HANDS- ON APPROACH

Dept. of Electronics & Communication Engg
&
Dept. of Telecommunication Engg.

~~04th - 05th November 2017~~
04th - 05th November 2017

For more details
<https://iotectcjinncce2017-18.wikispaces.com/>





Jawaharlal Nehru National College of Engineering
 (Affiliated to Visvesvaraya Technological University, Belagavi)
 Navule, Shimogga - 577 204
 Karnataka, India

Department of ECE and TCE

Schedule for Two Days National Level Workshop on "IoT, a Hands-on approach"

Day and Date	9.00 AM to 10.00AM	10.00AM-11.00 AM	T e a b r e a k	11.15AM-1.30 PM	L u n c h	2.30 AM -3.45 AM	T e a b r e a k	4.00 PM to 5.30 PM
04-11-2017	Inauguration	Introduction to IoT, Arduino, Node MCU & Raspberry pi		Introduction to Arduino Board, IDE (Interfacing to Computer), Programming, Setup & Simple LED programming		Introduction to various sensors Hands on : Interfacing sensors with Arduino		Demo on simple bots using Arduino
05-11-2017	Introduction to Node MCU Hands-on: Interfacing Sensors with Node MCU	Introduction to Raspberry pi & IoT		Hands-on: Interfacing Sensors, LCD with Raspberry pi		Using MQTT Protocol and Thingspeak cloud API		Mobile IoT using Blynk Application & Valedictory

VENUE: SEMINAR HALL (AD-Block)

M.TECH LAB (ECE DEPT.)



NATIONAL EDUCATION SOCIETY
Jawaharlal Nehru National College Of Engineering
 (Affiliated to Visvesvaraya Technological University, Belagavi)
 Navule, Shimogga -577 204
 Karnataka , India

REGISTRATION FORM
 TWO DAYS NATIONAL LEVEL WORKSHOP
 On
 IOT, a Hands-on approach
 4th and 5th November 2017

SL. NO	NAME	USN	CANTACT NO	COLLEGE NAME	SIGNATURE
1	Saritha. M.J	2SR14CS082	9731390795	STJIT	<i>Saritha</i>
2	Shruthi. B. G	2SR14CS073	7349695234	STJIT	<i>Shruthi B.G</i>
3	Vidyaashree. H.B	4JN15EC099	9986966278	STJNICE	<i>Vidyaashree</i>
4	Adhitya. K	4JN16FC002	7760135686	JNICE	<i>Adhitya K</i>
5	Murali Krishna. R	4JN14EE024	9742235157	JNICE	<i>Murali Krishna R</i>
6	Ruchika. F	4JN15EC071	9591740687	JNICE	<i>Ruchika F</i>
7	Sahana. H.S	4JN15EC073	9740158428	JNICE	<i>Sahana</i>
8	Shreeraksha.	4JN15EC078	9480921533	JNICE	<i>Shreeraksha</i>
9	Taruja. K	4GM15EC099	9482193716	GMIT	<i>Taruja K</i>
10	Vaani. K	4GM15EC101	9108335538	GMIT	<i>Vaani K</i>
11	Swathi. B.R	4GM15EC098	7411504920	GMIT	<i>Swathi</i>
12	Gushmitha. B.V	4GM15EC096	7204786141	GMIT	<i>Gushmitha B.V</i>
13	Pushpa. P	4GM15EC070	8105616952	GMIT	<i>Pushpa P</i>
14	Shwetha. N. G	4GM15EC086	8050373433	GMIT	<i>Shwetha N.G</i>
15	Swathi Sinha	1DA15EC156	8197829364	Do. AIT	<i>Swathi</i>

SL.NO	NAME	USN	CONTACT NO	COLLEGE NAME	SIGNATURE
16	Rashmi. P. K	IDAISEC124	8553029631	D8. AIT	Rashmi
17	Sharanya. H. T	IDAISEC174	8553106073	D8. AIT	Sharanya
18	Ramya. A. S	IDAISEC120	9972055962	D8. AIT	Ramya
19	Shruti dhy. S	IDAISEC143	9591414482	D8. AIT	Shruti dhy
20	Preksha. S	IDAISEC175	9632644277	D8. AIT	Preksha
21	Sumayya. H. S	IDAISEC151	9008942385	D8. AIT	Sumayya
22	Rashmi. C	IDAISEC123	8217844857	D8. AIT	Rashmi
23	Veena. P. D	4GM14EC112	8553018530	GMIT	Veena
24	Ranjitha. M. N	4GM14EC078	98731581810	GMIT	Ranjitha
25	Tejaswini. K. C	4GM14EC105	9482155875	GMIT	Tejaswini
26	Pupa kalmath	4GM14EC081	9972104645	GMIT	Pupa
27	Ullas. S	4JN16EC107	7829552474	JNICE	Ullas
28	Gangeetha. G. J	4GM15EC082	8197922705	GMIT	Gangeetha
29	Shruti akshmi. S. K	4GM15EC090	7892681706	GMIT	Shruti akshmi
30	Rashmi H Naik	4GM15EC079	7411179736	GMIT	Rashmi
31	Ranjitha. N. G	4GM15EC075	8867680188	GMIT	Ranjitha
32	Sauridhi. K. M	4GM15EC092	8553808004	GMIT	Sauridhi
33	Naveenkumar. G. C	4GM15EC057	9741064660	GMIT	Naveen
34	Rahul. N	4GM15EC071	8867633554	GMIT	Rahul
35	Prabhu. J. N	4GM15EC065	9738868734	GMIT	Prabhu
36	Ganju Naik - L	4GM15EC085	7338025327	GMIT	Ganju
37	Ramesha G. K	4GM15EC072	9886892090	GMIT	Ramesha
38	Pragna. R	4JN16EC061	8861643676	JNICE	Pragna
39	Anishuddh	IDAISEC012	7022681618	D8. AIT	Anishuddh
40	Ganthon. kumar	IDAISEC137	9535118229	D8. AIT	Ganthon

National education Society (R)
Jawaharlal Nehru National College of Engineering, Shivamogga
Internal Quality Assurance Cell

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Event Report

Department of Electronics and Communication

Name of the Event	<u>IoT, a hands-on approach</u>
Date of the event and venue	04-11-2017 to 05-11-2017 and ECE M.tech. Lab
Type of the Event & Event Count	National Level Workshop & Event Count no. 01
	Sem-Even Year-2017-18
Whether the event is organized in association with any institute / research organization / industry / professional society / JNNCE Dept. (in case of inter-departmental event)	IETE & JNNCE Dept. (ECE & TCE)
Details of the funding	Funded by the institute

received from associating partners	
Beneficiaries	Students
Detailed schedule with the topics covered	<p>The following topics were addressed in the Workshop</p> <ul style="list-style-type: none"> <input type="checkbox"/> Basic programming using Arduino and NodeMCU <input type="checkbox"/> Sensors and its applications <input type="checkbox"/> Interfacing of sensors, Bluetooth and GSM with Arduino <input type="checkbox"/> Introduction to Raspberry Pi and IoT <input type="checkbox"/> Lab session on programming Raspberry Pi using PYTHON
List of Speakers / guests	<p>INHOUSE SPEAKERS:</p> <p>a)Dr.Manjunatha P. HOD, Dept. of ECE Mobile:08310036042 Manjup.jnnce@gmail.com</p> <p>b)Mr.Benak Patel M P Asst. Prof., Dept. of TCE Mobile:9538527538 benapk7@jnnce.ac.in</p> <p>c)Mr. Sharath S M Asst. Prof., Dept. of ECE Mobile:09611109995 sharathsm@jnnce.ac.in</p> <p>d)Mr. Pradeepa S C Asst. Prof., Dept. of ECE Mobile:09036496015 pradeepasc@jnnce.ac.in</p> <p>e)Mr.AbhijeetN Asst. Prof., Dept. of ECE Mobile:09620852497 abhijithn@jnnce.ac.in</p> <p>f) Prashanth G S Asst.Prof Dept of ECE Mobile: 9008341321 prashanthgs@jnnce.ac.in</p>

Brief Report of the event(not exceeding 1000 words)

Institute of Electronics and Telecommunication Engineers, Shimoga centre in association with Departments of Electronics and Communication & Telecommunication Engineering of Jawaharlal Nehru National College of Engineering, Shivamogga organized a Two days National Level Workshop on " **IoT, a Hands-on approach** " on 4th and 5th of November 2017. Inaugural function of the workshop was held on 04.11.2017 at 9.00AM in the Seminar Hall of JNN College of Engineering Campus.

The function was presided over by Dr. H. R. Mahadevaswamy, Principal, JNN college of Engineering, Shivamogga. Sri. S N. Nagaraja Secretary, National Education Society, Shimoga was the chief guest and Prof. H. K. Harish, Chairman, IETE Shimoga centre, Dr. P. Manjunatha, Hony. Secretary Dr. Ushadevi M. B., Member, IETE Shimoga Centre were on the dias. Sri. A. S. Vishwanatha, President, Sri. T. R. Ashwathanarayana Shetty Vice President, Sri. C. R. Nagaraj Treasurer National Education Society also attended the function. The workshop was coordinated corporate members Mr. Sharath S M, Mr. Pradeepa S C, Mr. Benak Patel M.

Internet of things (IoT) is the network of physical devices, vehicles, home appliances, and other items embedded with electronics, software, sensors, actuators, and network connectivity which enable these objects to connect and exchange data.[1] The IoT allows objects to be sensed or controlled remotely across existing network infrastructure. **Internet of things (IoT)** has become the integral part of the today's human society. This workshop is mainly aimed to deliver the primary information about the IoT in detail.

With the wide availability of Broadband Internet, the cost of connecting more devices to internet has drastically reduced. Internet of Things has thus emerged, allowing any device to be connected to the internet, with an estimated number of over 100 billion devices connected to the internet within the next 5 years from now, we have faced challenges in IoT, such as reliability & security of data, network scalability, hard real-time operations, capabilities for massive storage, analysis of huge amounts of data, design of specific protocols to meet the QoS requirements in IoT, etc. The two- day workshop consists of lectures and demo sessions to elucidate the fundamentals of IoT.

The following topics were addressed in the Workshop

- Basic programming using Arduino and NodeMCU
- Sensors and its applications

- Interfacing of sensors, Bluetooth and GSM with Arduino
- Introduction to Raspberry Pi and IoT
- Lab session on programming Raspberry Pi using PYTHON

About 60 students studying in ECE/TCE/EEE/CSE and ISE departments of Engineering and polytechnic colleges of Karnataka actively participated in the workshop and largely benefitted. The workshop was concluded with valedictory function on 05.11.2017 at 4.30 PM. During the feedback session students expressed that they got an opportunity to learn what is IoT? and its vast application in day to day life and in industries.

Outcome of the event

Students became familiar with these topics

- Basic programming using Arduino and NodeMCU
- Sensors and its applications
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Photos



Invitation of Inaugural &

**Valedictor
y
programm
e/
Event
Brochure /
Press
Clippings**

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Place:

Signature of the Applicant

**Signature
Head of Department
(with seal)**

Organization committee

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Principal

Dr. Manjunatha P.

HOD, ICE Department

Dr. Ushadevi M. B

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Assistant Professor

Dept. of TCE

J N N College of Engineering

Cell : 9538527538

Email: benapk7@jnnce.ac.in



Date of Submission of the Report	06.11.2017

Signature with date


Event Coordinator


Dept. IQAC Coordinator


HOD