

#### Arts Science & Commerce College Ramanandnagar(Burli)



Department of Computer Application

Date -19/12/2019

# Report on Guest Lecture on "IOT"

The department of BCA was organized Guest Lecture on "Internet of Things (IOT)" on 19th December, 2019. This Guest Lecture was organized under the MOU & inauguration of Value Added Course. The purpose of Guest Lecture was to provide the information about advance technology & how to working with this technology in 21<sup>st</sup> century.

#### Outcome-

To understand the students IOT concepts & how to use in day to day life and this technology is benefited or not.

#### Beneficiaries

Students- 25





Head of Department
Department of Computer Application
Arts, Science & Commerce College
Ramanandnagar (Burli)

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Principal (A.S.C. College Ramanandnagar (Burli)

# Arts, Science & Commerce College, Ramanandnagar(Burli)

# **Department of Computer Application**

Value Added Course

Internet of Things (IOT)

2019-20

#### COMMITTEE

Sr. No.	Name	Designation
1.	Prof. Kshirsagar S.P.	Chairman
2.	Prof. Bhosale S.S.	Coordinator
3.	Prof. Deshmukh A.S.	Member
4.	Hajare Dnyandev Rajaram	Member

# Agenda:-

- 1. To ArrangeValue Added Course entitles Internet of Things (IOT).
- 2. To start self-finance course to placement opportunities.

Head ead of Dept.

Department of BCA College

Ramanandnagar (Burli)

Principal

Principalice College,

A.S.C.College, Ramanandnagar (Burli)

# Arts, Science & Commerce College, Ramanandnagar (Burli)

# **Department of Computer Application**

#### Value Added Course 2019-20

## **Internet of Things (IOT)**

**Syllabus Unit 1: Introduction to Internet of Things** (06)What is Internet? 1.2. The Technology "Internet of Things" 1.3. Usefulness of IoT 1.4. Professional Benefits 1.5. Application of IoT Unit 2: Internet of Things Environment (08)2.1. Introduction to Input and Output devices Introduction to embedded system 2.2. 2.3. Components of embedded systems The controlling unit "Microcontroller". 2.4. 2.5. Actuators. Unit 3: Sensors & Internet of Things: (06)3.1. Introduction to sensors. 3.2. Analog & Digital Sensors. 3.3. How to use sensors. 3.4. Types of sensors Case Study 3.5. Practicals-(10)1) Practical Based on Unit 1 2) Practical Based on Unit 2 3) Practical Based on Unit 3

Head of Dept.

Department of Computer Application
Arts, SHead of Department lege
Ramanandnagar (Burli)

Duration - 30 hrs.

# ARTS, SCIENCE AND COMMERCE COLLEGE, RAMANANDNAGAR (BURLI)

# Department of Computer Application Value Added Course (IOT) 2019-20

Program Outcome, Course Outcome, Program Specific Outcome (PO, CO, PSO)

## \* Program Outcome:

- 1. Effective usage of IOT deployment for different sectors.
- 2. Exploring the features of predictive data analytics for IOT applications.
- 3. Able to realize the revolution of internet in mobile devices, cloud & sensor networks.

## **Course Outcome:**

- 1. Able to understand the application areas of IOT.
- 2. Able to understand building blocks of IOT and characteristics.
- 3. Understand the technology & standards relating to IOT.
- 4. Helps to gain in-depth technical knowledge of the opted technology.

# \* Program Specific Outcome:

- 1. To contribute their technical skills in computing & information technology domains.
- 2. To compete practically & provide technical solutions for real world problems & must be able to apply the paradigm of programming language.

Head of Dept.

Department of Computer Application Arts, Science & Commerce College Ramanandnagar (Burli)

# Arts, Science & Commerce College, Ramanandnagar (Burli) Department of Computer Application

Value Added Course 2019-20 Internet of Things (IOT)

# **Syllabus Distribution**

Sr. No.	Name of Faculty	Unit
1	Prof. Kshirsagar S.P.	Unit 1
2	Prof. Bhosale S.S.	Unit 2
3	Prof. Deshmukh A.S.	Unit 3
4	All Faculty	Practical's

Head of Dept.
Department of Computer Application

ArHead of Department

# Arts, Science & Commerce College, Ramanandnagar (Burli) Department of Computer Application Internet of Things (IOT)

# Notice

All the students are hereby informed that the department is going to run Value Added Course "Internet of Things (IOT)" from 49/12/2019 to 49/01/2029. All should be present to take advantage of this course.

Head of Dept.

Department of Computer Application

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# Arts, Science & Commerce College, Ramanandnagar (Burli) Department of Computer Application Value Added Course 2019-20 Internet of Things (IOT)

# **Time Table**

Date	Name of Faculty	Time	Theory/Practical
19/12/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
20/12/2019	Prof. Bhosale S.S.	10.00 to 11.00	Theory
21/12/2019	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
23/12/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Practical
24/12/2019	Prof. Bhosale S.S.	10.00 to 11.00	Practical
26/12/2019	Prof. Deshmukh A.S.	10.00 to 11.00	Practical
27/12/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
28/12/2019	Prof. Bhosale S.S.	10.00 to 11.00	Theory
30/12/2019	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
31/12/2019	Prof.Kshirsagar S.P.	10.00 to 11.00	Practical
01/01/2020	Prof. Bhosale S.S.	10.00 to 11.00	Practical
02/01/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Practical
03/01/2020	Prof. Kshirsagar S.P.	10.00 to 11.00	Theory
04/01/2020	Prof. Bhosale S.S.	10.00 to 11.00	Theory
06/01/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
07/01/2020	Prof. Kshirsagar S.P.	10.00 to 11.00	Practical

08/01/2020	Prof. Bhosale S.S.	10.00 to 11.00	Practical
09/01/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Practical
10/01/2020	Prof. Kshirsagar S.P.	10.00 to 11.00	Theory
11/01/2020	Prof. Bhosale S.S.	10.00 to 11.00	Theory
13/01/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
14/01/2020	Prof. Kshirsagar S.P.	10.00 to 11.00	Practical
16/01/2020	Prof. Bhosale S.S.	10.00 to 11.00	Practical
17/01/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Practical
18/01/2020	Prof. Kshirsagar S.P.	10.00 to 11.00	Theory

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Prof. Kshirsagar S.P. (Chairman)

Prof. Bhosale S.S. (Coordinator)

Prote Borade N.S.
Department of Computer Application
Arts Head of Departmenthege

Borum

Ramanandnagar (Burli)

# Arts Science and Commerce College, Ramanandanagar(Burli)

# Department of BCA

# Add On course on Internet of things

# 2019-20

# **Student List**

### **BCA-I**

Roll No	Name of the Student	Student Sign
2351	INGALE SNEHAL POPAT	Singele
2352	JADHAV SAMAJYOTI SANJAY	Ydinav
2353	MALI SAURABH UTTAM	SIM
2354	PATIL SUSMITA HANMANT	Antil
2355	SAWANT ROHIT RAJENDRA	R.R. Sawant
2356	SOLVANDE SNEHAL SUNIL	ssolvande.
2357	JADHAV TEJASWINI DHANAJI	Due.

#### **BCA-II**

Roll No	Name of the Student	Student Sign
2401	INGALE SHIVANI SUNIL	Singale
2402	JADHAV MAHESH SURESH	Many
2403	KADAM JAYDEEP JAYSING	Radam.
2404	LAD SHRUTI RAMESH	splad.
2405	LOKHANDE VAISHALI MAHADEV	michande.
2406	MALI BHAGYASHRI HANMANT	Foolise.
2407	MISSING POOJA KRISHNA	PKmgi.
2408	MOHITE VAISHNAVI VILAS	v.v. mohite
2409	PATIL ANJALI VIJAY	A.v. Patil
2410	SARDGUDDA ANKITA KRUSHNA	Radgudda.
2411	VIBHUTE SHIVANI RAHUL	(SP)
2412	WAINGADE PRATIKSHA GANESH	Pomuy.
2413	MASKE YOGITA RAVAJI	V. R. meske

# **BCA-III**

Roll No	Name of the Student	Student Sign
2451	CHAVAN BHAGYASHRI TANAJI	Acharan.
2452	CHAVAN PRATHMESH SUBHASH	Pahan
2453	HAJARE DNYANDEV RAJARAM	Doney
2454	MASKE VRUSHALI SANJAY	maske
2455	PAILWAN SUYASH SHIVAJI	Saury
2456	PATIL KISHORI ANIL	Kpatil.

Head of Dept.
Department of BCA
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Ramanandrager (Buril)



# Arts, Science & Commerce College, Ramanandnagar (Burli) Value Added Course 2019-20

**COURSE Name: IOT** 

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2352	JadhavSamajyoti Sanjay	Hodbal	Indhal	Whathar	mada	Badbal	gradhal	Moder	Project	Male
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# Rayat Shikshan Sanstha's Arts, Science & CommerceCollege, Ramanandnagar (Burli) Capsule Course 2019-20

**COURSE Name: IOT** 

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# Arts, Science & Commerce College, Ramanandnagar (Burli) Capsule Course 2019-20

**COURSE Name: IOT** 

Chavan Prathmesh Sul 00.11 oT 00.01 :9miT

Chavan Bhagyashri Tanaji

Roll	Name of Students		00	- D	00	0	1 0	1 15V HIEVALES	HIWAII SUY	34 (
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2351	Ingale Snehal Ponat	Romale	St Balo	200 AB	Shook	Singale.	Stroule	canquile	Stagle	-
2352	JadhavSamajyoti Sanjay	Sophar	Madhar	AB	gendrat	Heidhar	/	AB	Soular	
2353	Mali SaurabhUttam	sense	cus	Sep	cell	Splip	+ AB	Sins	Shu	-
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2403	Kadam JaydeepJaysing	AB	AB	AB	AB	AB	AB	AB	-	
2404	Lad Shruti Ramesh	Slook.	solal.	Salar.	Sphol.	AB	Solad	Steel	AB Sklad.	
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# Arts, Science & Commerce College, Ramanandnagar (Burli)

# **Department of Computer Application**

Value Added Course 2019-20

Internet of Things (IOT)

# **Teacher Attendance**

Date	Name of Faculty	Theory/Practical	Signature
19/12/2019	Prof.Kshirsagar S.P.	Theory	Billay
20/12/2019	Prof. Bhosale S.S.	Theory	trathonal
21/12/2019	Prof. Deshmukh A.S.	Theory	Salesh nach
23/12/2019	Prof.Kshirsagar S.P.	Practical	Fliesay
24/12/2019	Prof. Bhosale S.S.	Practical	Antoeang &
26/12/2019	Prof. Deshmukh A.S.	Practical	Salhnuch
2-7/12/2019	Prof.Kshirsagar S.P.	Theory	Sliebay
28/12/2019	Prof. Bhosale S.S.	Theory	tubeann
30/12/2019	Prof. Deshmukh A.S.	Theory	Solehnich
31/12/2019	Prof.Kshirsagar S.P.	Practical	Dissay
01/01/2020	Prof. Bhosale S.S.	Practical	Anuthands
02/01/2028	Prof. Deshmukh A.S.	Practical	Sdelhales
03/01/2020	Prof.Kshirsagar S.P.	Theory	Liesas
04/01/2020	Prof. Bhosale S.S.	Theory	( nutrange
06/01/2020	Prof. Deshmukh A.S.	Theory	Saleshaucs
07/01/2020	Prof.Kshirsagar S.P.	Practical	Rislas
68/01/2020	Prof. Bhosale S.S.	Practical	trubhanges

09/01/2020	Prof. Deshmukh A.S.	Practical	Salahnto
20/01/2023	Prof.Kshirsagar S.P.	Theory	Si son
14/01/2020	Prof. Bhosale S.S.	Theory 3	nuthant &
13/01/2020	Prof. Deshmukh A.S.	Theory	Siethnie
1461/2020	Prof.Kshirsagar S.P.	Practical	6 Liesan
16/07/2020	Prof. Bhosale S.S.	Practical	thustonyl
17/02/2020	Prof. Deshmukh A.S.	10 1 Practical	Blethough
18/02/2020	Prof.Kshirsagar S.P.	Theory	Sl'abril

### Teacher Attendance

Signature	Theory/Practical	Porce of Faculty	Date Jun
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(L022)		Prof.Kshirsagar S.P.	d9/12/2019
	Practical		20/02/2019

# Arts, Science & Commerce College, Ramanandnagar(Burli)

Department o	f	Computer	Application
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Course Name-Internet of Things (IOT)		Date-22/01/20
Name of the Student- Chanan P FEEDBAC	K FORM	Subhash
1) What is your overall assessment of the c	ourse? (1= insufficient –	5=excellent)
2) Which topics or aspects of the course die	I you find most interesting	ng or useful?
3) Knowledge and information gained from	participation at this co	urse?
Met your Expectations	Yes No	Somehow
Will be useful /Applicable in my work	Definitely Mostly S	omehow Not at all
4) Comments and Suggestions		
	Co.	gnature

# Arts, Science & Commerce College, Ramanandnagar (Burli) **Department of Computer Application** Value Added Course 2019-20

**Internet of Things (IOT)** 

# Action Report on Feedback

The BCA department was organized Value Added Course in every year since 2015. The course duration was 30 days. The course aims to offer the best possible environment & learning experience to encourage students to their full potential & capability.

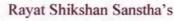
The feedback analysis process has put an increasing emphasis on the need for involvement of students in the course. After successful completion of each & every course we are taken feedback from students.

Following are the some feedbacks -

- 1. Students are quite satisfied with the time spent by teachers on practical session of the course.
  - In response of feedback Teachers are able to take more practical sessions. Keeping in mind the time- framework of practical session, teachers accordingly plan for the extra practical hours.
- 2. Majority of the students agreed that the courses which were organized by department are helpful in future and improved the knowledge of students in day- to- day life or daily life.
- 3. Students are satisfied with the overall assessment and topics or aspects of courses which are useful, applicable in their work.

Arts, Science & Commerce College

Ramananunagar (Burli)





#### Arts Science & Commerce College Ramanandnagar(Burli

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#### Department of BCA

#### Value Added Course - Internet of Things

2019-20

**Question Paper** 

Date: 20/1/2020

# Q.1) IOT is an advanced automation and analytics system which deals with? Mark only one oval.

- 1. Sensor, Networking
- 2. Electronic
- 3. Cloud Messaging
- 4. All of the above

#### Q.2) Which of the following is not an advantage of IOT?

- 1. Mark only one oval.
- 2. Improved Customer Engagement
- 3. Security
- 4. Reduced Waste

#### Q.3) Which of the following is being used by Internet of Things?

- 1. Mark only one oval.
- 2. Satellite
- 3. Cable
- 4. Radio Identification Technology

### .Q.4) The application of Internet of Cows which is cow location technology is

- 1. Mark only one oval.
- 2. Yes are internet of things
- 3. Not internet of things
- 4. Can't say

# Q.5) In the current market scenario, IOT captures the maximum share in which one of these?

- 1. Mark only one oval.
- 2. Introduction of Things
- 3. Internet of Things
- 4. Internet of Tracking

#### Q.6What does IoT stand for?

- 1. Internet of Text
- 2. Internet of Technology
- 3. Internet of Things
- 4. International Online Trends



## Q.7Which of the following is NOT a component of IoT? 1. Sensors

- 2. Actuators
- 3. Microcontrollers
- 4. GPS

#### Q.8Which wireless technology is commonly used in IoT for short-range communication?

- 1. WiMAX
- 2. Bluetooth
- 3. LTE
- 4. Zigbee

#### Q.9 Which layer of the IoT architecture is responsible for data processing and analytics?

- 1. Perception Layer
- 2. Network Layer
- 3. Application Layer
- 4. Middleware Layer

#### Q.10 Which protocol is commonly used for IoT communication over the Internet?

- 1. HTTP
- 2. FTP
- 3. SMTP
- 4. MQTT

#### Q.11 Which industry is NOT heavily impacted by IoT technology?

- 1. Healthcare
- 2. Agriculture
- 3. Entertainment
- 4. Manufacturing

#### Q.12 Which of the following is NOT a challenge of IoT implementation?

- 1. Security and privacy concerns
- 2. Interoperability issues
- 3. Scalability
- 4. Decreased data volume

#### Q.13What is the primary purpose of IoT platforms?

- 1. To provide physical platforms for IoT devices
- 2. To manage and analyze data from IoT devices
- 3. To manufacture IoT devices
- 4. To regulate IoT standards

#### Q.14Which programming language is commonly used for IoT development?

- 1. Java
- 2. Python
- 3. C++
- 4. HTML

#### Q.15Which of the following is a benefit of IoT?

- 1. Increased security risks
- 2. Limited connectivity
- 3. Enhanced efficiency and productivity
- 4. Decreased data collection

# Rayat Shikashan Sanstha"s Arts Science and Commerce College, Ramanandanagar(Burli)

# Department of BCA Add On course on Internet of things

# 2019-20 Marksheet

Roll No	Name of the Student	Marks
2351	INGALE SNEHAL POPAT	48/50
2352	JADHAV SAMAJYOTI SANJAY	46/50
2353	MALI SAURABH UTTAM	48/50
2354	PATIL SUSMITA HANMANT	44/48
2355	SAWANT ROHIT RAJENDRA	46/50
2356	SOLVANDE SNEHAL SUNIL	48/50
2357	JADHAV TEJASWINI DHANAJI	48/50
2401	INGALE SHIVANI SUNIL	48/50
2402	JADHAV MAHESH SURESH	48/50
2403	KADAM JAYDEEP JAYSING	48/50
2404	LAD SHRUTI RAMESH	48/50
2405	LOKHANDE VAISHALI MAHADEV	48/50
2406	MALI BHAGYASHRI HANMANT	48/50
2407	MISSING POOJA KRISHNA	48/50
2408	MOHITE VAISHNAVI VILAS	46/50
2409	PATIL ANJALI VIJAY	48/50
2410	SARDGUDDA ANKITA KRUSHNA	44/50
2411	VIBHUTE SHIVANI RAHUL	48/50
2412	WAINGADE PRATIKSHA GANESH	48/50



2413	MASKE YOGITA RAVAJI	48/50	
2451	CHAVAN BHAGYASHRI TANAJI	48/50	
2452	CHAVAN PRATHMESH SUBHASH	42/50	
2453	HAJARE DNYANDEV RAJARAM	48/50	
2454	MASKE VRUSHALI SANJAY	48/50	
2455	PAILWAN SUYASH SHIVAJI	48/50	
2456	PATIL KISHORI ANIL	48/50	
2456	PATIL KISHORI ANIL	48/50	

Head of Department Separtment Computer Application Ans. Science & Computer Application Ramanandnagar (Sura)



# Arts, Science, Commerce College, Ramanandnagar, (Burli)

Department of BCA

# Capsule/Value Added Course 2019-20

"Internet of things"

#### CERTIFICATE

This is to certify that Shri. / Smt. <u>Ingale Shivani Sunil</u> of Arts, Science, Commerce College, Ramanandnagar(Burli) Participated Three Month's **Capsule/Value Added**Course "Internet of things "Organized by Department of BCA, From 19/12/2019 To 19/.01.2020.

(Miss. Bhosale S. S.) Co-ordinator (Miss.Khirsagar S. P) Chairman (Prof. Borade N.S.) Head of Dept

Principal
A. S. C. College, Ramanandnagar(Burli)