

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar(Burli)
Department of Computer Application
Value Added Course- Internet of Things (IOT)

Action Report

The department of BCA conducting Value Added courses every year for the students since 2015. These courses are compulsory for BCA-III year which is run on self-funding basis & Free of Cost.

The aims of these courses are to provide the computer knowledge to the students. The duration of each course is one month and each course is split into two sections viz. theory & practical.

The department has been started Value Added Course namely Hardware Maintenance in 2015-16. The significance of this course is to introduce knowledge about the computer & its hardware parts as well as basic hardware components of computer & its uses. In 2016-17 another course was started that is Digitalization in continuation of previous course. There are multiple benefits of Digital Learning in transforming a student's life like: Decision making, Visual Learning, Cultural Awareness, Improved Academic Performance etc. In 2017-18 & 2018-19 new course was started with continuation of previous course that is Cyber Security. The purpose of this course is to understand the concept of Cyber Security & what kinds of precautions are needed. Challenges that we have to face in digital life and different techniques for handling computer attacks etc. In 2019-20 new course was started that is Internet of Things (IOT). The purpose of this course is to understand the significance of IOT, Working of IOT, and How IOT can help, case study of IOT etc.

The department of BCA is starting course that is Internet of Things (IOT) in 2020-21 to BCA – I students. The main purpose is to understand that how IOT is effectively useful in our life.



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

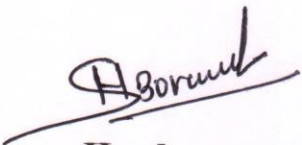
Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar(Burli)
Department of Computer Application
Value Added Course
Internet of Things (IOT)
2020-21

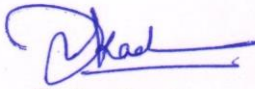
COMMITTEE

Sr. No.	Name	Designation
1.	Prof. Kshirsagar S.P.	Chairman
2.	Prof. Deshmukh A.S.	Coordinator
3.	Prof. Mulani M.N.	Member
4.	Ms. Sawat V.S.	Member

Agenda:-

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


Head,
Department of BCA


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

Kayat Shikshan Sanstha's

Arts, Science & Commerce College, Ramanandnagar (Burli)

Department of Computer Application

Value Added Course 2020-21

Internet of Things (IOT)

Duration- 30 hrs.

Syllabus

Unit 1: Introduction to Internet of Things (10)


- 1.1. 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 (10)

- 2.1. Introduction to Input and Output devices
- 2.2. Introduction to embedded system
- 2.3. Components of embedded systems
- 2.4. The controlling unit "Microcontroller".
- 2.5. Actuators.

Unit 3: Sensors & Internet of Things: (10)

- 3.1. Introduction to sensors.
- 3.2. Analog & Digital Sensors.
- 3.3. How to use sensors.
- 3.4. Types of sensors
- 3.5. Case Study


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Rayat Shikashan Sanstha's

Arts Science and Commerce College, Ramanandanagar (Burli)

Department of BCA

Add On course on Internet of things

2020-21

Programme Outcome

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 network

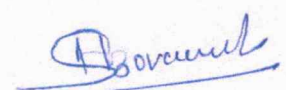
Course Outcome:

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 & mm able to apply the paradigm of programming language.




Head of Dept.
Department of BCA
Dr. Patangrao Mahavir Alkhalifa,
Ramanandanagar (Burli)

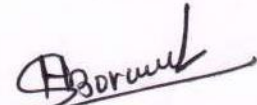
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Arts, Science & Commerce College, Ramanandnagar (Burli)

Department of Computer Application

Internet of Things (IOT)

Notice

All the students of BCA - I are hereby informed that the department is going to run Value Added Course "**Internet of Things (IOT)**" from 16/12/2020 to 19/01/2021. All should be present to take advantage of this course.



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Department of Computer Application
Head of Department
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)

Department of Computer Application

Value Added Course 2020-21

Internet of Things (IOT)

Time Table

Date	Name of Faculty	Time	Theory/Practical
16/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
17/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
18/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
19/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
21/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
22/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
23/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
24/12/2020	Prof.Kshirsagar S.P.	10.00 to 11.00	Theory
26/12/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
28/12/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
29/12/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
30/12/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
31/12/2020	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
01/01/2021	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
02/01/2021	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
04/01/2021	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
05/01/2021	Prof. Deshmukh A.S.	10.00 to 11.00	Theory
06/01/2021	Prof. Deshmukh A.S.	10.00 to 11.00	Theory

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)

Department of BCA

Value Added Course 2020--21

Internet of Things(IOT)

Students List

Sr. NO	Name of Student	Signature
1	Chinchkar Vinayak Vilas	<u>W.C</u>
2	Jadhav Isha Arun	SPP
3	Jadhav Samajyoti Sanjay	<u>Dadwar</u>
4	Maske Minal Mhalappa	<u>Maske</u>
5	Patil Vinayak Raghunath	<u>Patil</u>
6	Ranmale Shruti Suresh	<u>SRanmal</u>
7	Salunkhe Vinay Ravindra	<u>Salunkhe</u>
8	Sawat Varsha Sambhaji	<u>Sawat</u>
9	Sutar Rushikesh Tanaji	<u>RSutar</u>



AB Borade
Prof. N.S. Borade
(Head, Dept. of BCA)

Online Multiple Choice Questions Quiz on Internet Of Things (IOT) 2020 - 2021

* Required

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar(Burli)

Department of B.C.A.

Value Added Course Name - Internet of Things (IOT)

Class - B.C.A. - I

Total Marks - 30

Instructions:

- 1) All questions are compulsory.
- 2) Each question carries 2 marks.

1. Name of the Student *

2. Q.1) IOT stands for? *

Mark only one oval.

- Introduction of Things
- Internet of Things
- Internet of Tracking
- Interaction of Things

3. Q.2) Which of the following is true about IOT? *

Mark only one oval.

- The term Things in the Internet of Things refers to anything and everything in day to day life
- IOT has greater transparency, control, and performance.
- Both A and B
- None of the above

4. Q.3) IOT is an advanced automation and analytics system which deals with? *

Mark only one oval.

- Sensor, Networking
- Electronic
- Cloud Messaging
- All of the above

5. Q.4) Which of the following is not an advantage of IOT? *

Mark only one oval.

- Improved Customer Engagement
- Security
- Reduced Waste
- Enhanced Data Collection

12. Q.11) Which of the following is being used by Internet of Things? *

Mark only one oval.

- Satellite
- Cable
- Radio Identification Technology
- Broadband

13. Q.12) The application of Internet of Cows which is cow location technology is *

Mark only one oval.

- Yes are internet of things
- Not internet of things
- Can't say
- None of these

14. Q. 13) In the current market scenario, IOT captures the maximum share in which one of these? *

Mark only one oval.

- Industry
- Security
- Healthcare
- Home automation

15. Q.14) IOT devices must have: *

Mark only one oval.

- USB port
- A unique identification
- Wired connectivity
- All of the above

16. Q.15) The levels of IoT are called as *

Mark only one oval.

- Nodes
- Tires
- Items
- Blocks

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Google Forms

Rayat Shikashan Sanstha's
Arts Science and Commerce College, Ramanandanagar(Burli)
Department of BCA
Add On course on Internet of things
2020-21
Marksheet

Sr. No	Name of the Student	Marks
1.	CHINCHKAR VINAYAK VILAS	48/50
2.	JADHAV DIVYA DILIP	46/50
3.	JADHAV ISHA ARUN	48/50
4.	KADAM SURAJ KUNDLIK	44/48
5.	PATIL VINAYAK RAGHUNATH	46/50
6.	RANMALE SHRUTI SURESH	48/50
7.	SALUNKHE VINAY RAVINDRA	48/50
8.	SAWAT VARSHA SAMBHAJI	48/50
9.	SUTAR RUSHIKESH TANAJI	48/50




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

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Department of Computer Application
Capsule Course 2020-21


COURSE Name: IOT

Time: 10.00 To 11.00

Sr. No.	Name of Students	8/2/21	9/2/21	11/2/21	12/2/21	13/2/21	15/2/21	16/2/21	18/2/21	19/2/21
1.	Chinchkar Vinayak Vilas	V.V.C	V.V.C	V.V.C	V.V.C	V.V.C	V.V.C	V.V.S	V.V.C	V.V.S
2.	Jadhav Divya Dilip	Djadhav	Djadhav	Djadhav	Djadhav	Djadhav	Djadhav	Djadhav	Djadhav	Djadhav
3.	Jadhav Isha Arun	Jshh	Jshh	Jshh	Jshh	Jshh	Jshh	Jshh	Jshh	Jshh
4.	Kadam Suraj Kundlik									
5.	Patil Vinayak Raghunath	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
6.	Ranmale Shruti Suresh	Sranmale	Sranmale	Sranmale	Sranmale	Sranmale	Sranmale	Sranmale	Sranmale	Sranmale
7.	Salunkhe Vinay Ravindra	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe	Salunkhe
8.	Sawat Varsha Sambhaji	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat
9.	Sutar Rushikesh Tanaji	RSutar	RSutar	RSutar	RSutar	RSutar	RSutar	RSutar	RSutar	RSutar
10.	Maske Minal Mhalappa	Maske	Maske	Maske	Maske	Maske	Maske	Maske	Maske	Maske

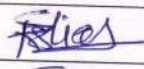




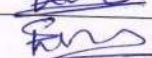


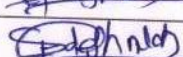
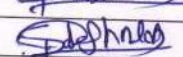
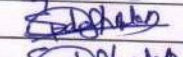
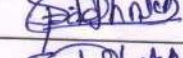
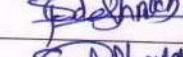
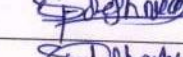

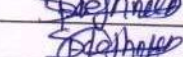
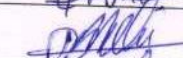





Prof. Deshmukh A.S.
(Coordinator)


Prof. Kshirsagar S.P.
(Chairman)


Prof. Borade N.S.
(Head of Department)

Rayat Shikshan Sanstha's
Arts, Science & Commerce College, Ramanandnagar (Burli)
Department of Computer Application
Value Added Course 2020-21
Internet of Things (IOT)

Teacher Attendance

Date	Name of Faculty	Theory/Practical	Signature
16/12/2020	Prof.Kshirsagar S.P.	Theory	
17/12/2020	Prof.Kshirsagar S.P.	Theory	
18/12/2020	Prof.Kshirsagar S.P.	Theory	
19/12/2020	Prof.Kshirsagar S.P.	Theory	
21/12/2020	Prof.Kshirsagar S.P.	Theory	
22/12/2020	Prof.Kshirsagar S.P.	Theory	
23/12/2020	Prof.Kshirsagar S.P.	Theory	
24/12/2020	Prof.Kshirsagar S.P.	Theory	
26/12/2020	Prof. Deshmukh A.S.	Theory	
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30/12/2020	Prof. Deshmukh A.S.	Theory	
31/12/2020	Prof. Deshmukh A.S.	Theory	
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02/01/2021	Prof. Deshmukh A.S.	Theory	
04/01/2021	Prof. Deshmukh A.S.	Theory	
05/01/2021	Prof. Deshmukh A.S.	Theory	
06/01/2021	Prof. Deshmukh A.S.	Theory	
07/01/2021	Prof. Mulani M.N.	Theory	
08/01/2021	Prof. Mulani, M.N.	Theory	
09/01/2021	Prof. Mulani M.N.	Theory	

11/01/2021	Prof. Mulani M.N.	Theory	
12/01/2021	Prof. Mulani M.N.	Theory	
13/01/2021	Prof. Mulani M.N.	Theory	
16/01/2021	Prof. Mulani M.N.	Theory	
18/01/2021	Prof. Mulani M.N.	Theory	
19/01/2020	Prof. Mulani M.N.	Theory	

Teacher Attendance

Head of Department

Department of Applied Arts, Science & Technology
Ramanandnagar (Burl)

Signature	Theory/Practical	Faculty	Date
	Theory	Prof. Kshirsagar S.P.	17/12/2020
	Theory	Prof. Kshirsagar S.P.	18/12/2020
	Theory	Prof. Kshirsagar S.P.	19/12/2020
	Theory	Prof. Kshirsagar S.P.	21/12/2020
	Theory	Prof. Kshirsagar S.P.	22/12/2020
	Theory	Prof. Kshirsagar S.P.	23/12/2020
	Theory	Prof. Kshirsagar S.P.	24/12/2020
	Theory	Prof. Deshmukh A.S.	26/12/2020
	Theory	Prof. Deshmukh A.S.	28/12/2020
	Theory	Prof. Deshmukh A.S.	29/12/2020
	Theory	Prof. Deshmukh A.S.	30/12/2020
	Theory	Prof. Deshmukh A.S.	31/12/2020
	Theory	Prof. Deshmukh A.S.	01/01/2021
	Theory	Prof. Deshmukh A.S.	02/01/2021
	Theory	Prof. Deshmukh A.S.	04/01/2021
	Theory	Prof. Deshmukh A.S.	05/01/2021
	Theory	Prof. Deshmukh A.S.	06/01/2021
	Theory	Prof. Mulani M.N.	07/01/2021
	Theory	Prof. Mulani M.N.	08/01/2021
	Theory	Prof. Mulani M.N.	09/01/2021

Timestamp **Score** **Nam** **Q.1**) **Q.2**) **Q.3**) **Q.4**) **Q.5**) **Q.6**) **Q.7**) **Q.8**) **Q.9**) **Q.10**) **Q.11** **Q.12** **Q. 1** **Q.14** **Q.15**) **The levels of IoT are**

3/17/2021 12:47:42	30 / 30	Shru Inter Both	All of Secur IOT 1999	Kevin Secur All of ATM	Radix Yes & Indu A uni Tires
3/17/2021 12:47:45	30 / 30	varsh Inter Both	All of Secur IOT 1999	Kevin Secur All of ATM	Radix Yes & Indu A uni Tires
3/17/2021 12:48:03	18 / 30	Vinay Inter None	All of Secur IOT 1999	Kevin Secur Ener, Smart	Radix None Indu USB Nodes
3/17/2021 12:49:01	30 / 30	Isha Inter Both	All of Secur IOT 1999	Kevin Secur All of ATM	Radix Yes & Indu A uni Tires
3/17/2021 12:52:48	22 / 30	Vinay Inter Both	All of Secur IOT 1999	Kevin Secur All of ATM	Satel None Indu USB Nodes
3/17/2021 13:45:00	26 / 30	Rush Inter Both	All of Secur It ma 1999	Kevin Secur All of Smart	Radix Yes & Indu A uni Tires
3/17/2021 13:45:12	24 / 30	Vinay Intro Both	All of Secur IOT 1998	Kevin Secur All of ATM	Radix Yes & Indu USB Tires
3/17/2021 14:37:04	20 / 30	Divya Inter Both	All of Secur IOT 1999	Kevin Thin, All of Radio	Satel Yes & Indu All of Nodes
3/18/2021 11:03:25	30 / 30	Mina Inter Both	All of Secur IOT 1999	Kevin Secur All of ATM	Radix Yes & Indu A uni Tires

Rayat Shikshan Sanstha's

Arts, Science & Commerce College, Ramanandnagar (Burli)

Department of Computer Application

Course Name-Internet of Things (IOT)

Date- 18/3/2021

Name of the Student- Sawat Varsha Sambhaji

FEEDBACK FORM

1) What is your overall assessment of the course? (1= insufficient – 5=excellent)

1 2 3 4 5

2) Which topics or aspects of the course did you find most interesting or useful?

Internet of things environment

3) Knowledge and information gained from participation at this course?

Met your Expectations

Yes

No

Somehow

Will be useful /Applicable in my work

Definitely

Mostly

Somehow

Not at all

4) Comments and Suggestions

Comments- Internet of thing will explain all the basic components of IOT you need to know.

Suggestions- No.

Sawat
Signature

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Department of Computer Application
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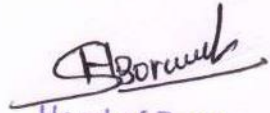
Action Report on Feedback

The BCA department was organized short 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 session of the course.
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 and these courses are totally free of cost.


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

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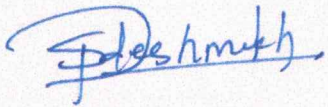
Department of BCA

Capsule/Value Added Course 2020-21

“Internet of things”

CERTIFICATE

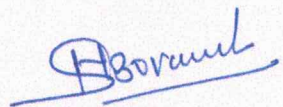
This is to certify that Shri. / Smt. Jadhav Isha Arun of Arts,
Science, Commerce College, Ramanandnagar(Burli) Participated Three Month's **Capsule/Value Added**
Course “Internet of things” Organized by Department of BCA, From 16/12/2020 To 19/01/2021.



(Miss. Deshmukh A. S.)
Co-ordinator



(Miss. Khirsagar S. P.)
Chairman



(Prof. Borade N.S.)
Head of Dept



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

