



RAMAIAH

College of Arts, Science &
Commerce

ಎಮ್ ಎಸ್ ರಾಮಯ್ಯ ಕಲಾ, ವಿಜ್ಞಾನ ಮತ್ತು ವಾಣಿಜ್ಯ ಕಾಲೇಜು
M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,
Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956



(National Institutional Ranking Framework, Ministry of Education, Govt of India)
Ranked 62nd in NIRF India Ranking by MHRD, New Delhi
DBT Star College Scheme

Ref: MSRCASC/CSc/21-22/012

Date: 13/12/2021

CIRCULAR

Department of Computer Science

This is to inform to all the BCA I semester students that the department has planned to conduct a Value added course on “Internet of Things- IOT” from 5th to January 2022. Students who are interested can enrol your names to Mrs Haripriya G S on or before 24th December 2021. The resource person is Mr. Abhishek K.L, Asst. Professor, Department of Master of Computer Applications, MSRIT, Bengaluru.

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HOB 12/21

Head Of The Department Of Computer Science,
M. S. Ramaiah College Of
Arts Science And Commerce
MSRIT Post, Bangalore - 560 054

Heck
Principal

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

About The College

Ramaiah College of Arts, Science and Commerce was established in 1994 by our founder Late Dr. M S Ramaiah offering both under graduate and post graduate degrees offered by Bengaluru Central University approved by AICTE, New Delhi, recognized by the Government of Karnataka. The college is also recognized by UGC under 2f and 12b of UGC Act 1956, re-accredited "A" grade by NAAC and has ranked 62nd in a NIRF ranking and 1st among the best colleges of Karnataka

About The Department

The Computer Science Department of RCASC aims to educate students in the science and practice of IT. The emphasis is on hands on practical training of software development.. The program enables the student to be updated on the latest revolution on technology and equips the students with the required skills and knowledge to assimilate into the industry at ease.

Objective & Outcome of the Program

Objective: To develop skills required for ML Technologies using Python to analyze data ,solving ML problems like Regression, Classification, and Clustering using ML algorithms.

Outcome: Understand how to evaluate models generated from data. Apply the algorithms to a real problem.

Event Coordinator

Mrs Haripriya G S. Asst. Professor, MSRCASC

Patrons

Dr. M R Jayaram Chairman, GEF
Sri M R Janakiram Director, GEF
Sri M R Kodandaram Director, GEF
Sri B S Ramprasad Chief Executive GEF(E & GS)
Sri G Ramachandra Chief of Finance GEF(E &GS)

Organizing Committee

Dr A Nagarathna Principal, RCASC.
Dr Prathiba V Kalburgi, HOD
Mrs Suma C Assistant Professor
Mr Lakshmipathi V Assistant Professor
Mrs R Srividya, Assistant Professor
Mrs Dhanashree Vaishali, Asst. Professor
Mrs Shilpa Nayak Asst. Professor
Mrs Savitri K Asst. Professor

Resource Person

Mr. Abhishek KL, Assistant Professor
Department of Master of Computer Applications, MSRIT

Course Outline

The goal behind the Internet of things is to have devices that self report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention



Department of Computer Science Organizes

Value Added Course On

"Internet of Things- IOT"



5th January to 3rd February 2022

Venue : Online

Registration link:

<https://forms.gle/gzZTrVPHQCPaueC46>

Meeting link : <http://meet.google.com/ats-jxsk-xyx>

Beneficiaries: First Year BCA Students

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Department of Computer science

Value added course

Title: “ *Internet of Things- IOT*”

Date: 5th January to 3rd February 2022

Venue: Online

Participants: I Year BCA students

Resource Person: Mr. Abhishek KL, Assistant Professor

Department of Master of Computer Applications, MSRIT

No of Students: 81

Event Coordinator: Hari Priya G S

Objective: To develop skills required for ML Technologies using Python to analyze data, solving ML problems like Regression, Classification, and Clustering using ML algorithms.

Course Outline –

The goal behind the Internet of things is to have devices that self-report in real-time, improving efficiency and bringing important information to the surface more quickly than a system depending on human intervention

This Value Added course is aim to provide additional learner skill oriented technical training with the primary objective of improving the employability skills of students. To bridge the skill gaps and make students industry ready.

The first day of the course started with by introducing the resource person **Mr. Abhishek KL, Assistant Professor, Department of Master of Computer Applications, MSRIT** to all the participants by Dr.Prathiba V K , HOD of Computer Science .Session started by giving the course outline and benefits of the course. He also explained the students about the high demand technologies in the industry and he suggested them to update the skills accordingly.

The growing emphasis on digital transformation is encouraging more organizations to adopt initiatives driven by the Internet of Things (IOT).

While such initiatives enable enterprises to enhance customer experiences, create new business channels, or acquire new partner ecosystems, gaining the insights to realize these benefits can prove to be challenging. The sheer volume of data that these devices generate,

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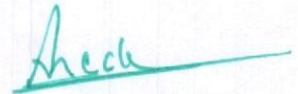
the variety of data that comes in, and the velocity in which data is collected creates its own set of challenges in terms of storage, processing power, and analytics for such enterprises.

The growth of IOT adoption has been exponential across all industries, but organizations within each industry face a unique set of challenges along this journey. Enterprises leveraging all the big data generated from IOT devices in their machine learning models are able to use prescriptive and predictive analytics to make well-informed decisions.

Several techniques used by the resource person which included questions and answer, brainstorming, group discussion, practical implementation of some of the topics to make sure all the participants get the whole concepts and they practise what they learn. First year students were understood about IOT and evaluating data modules relating to the algorithms and they understand the industry needs in the field of technology.

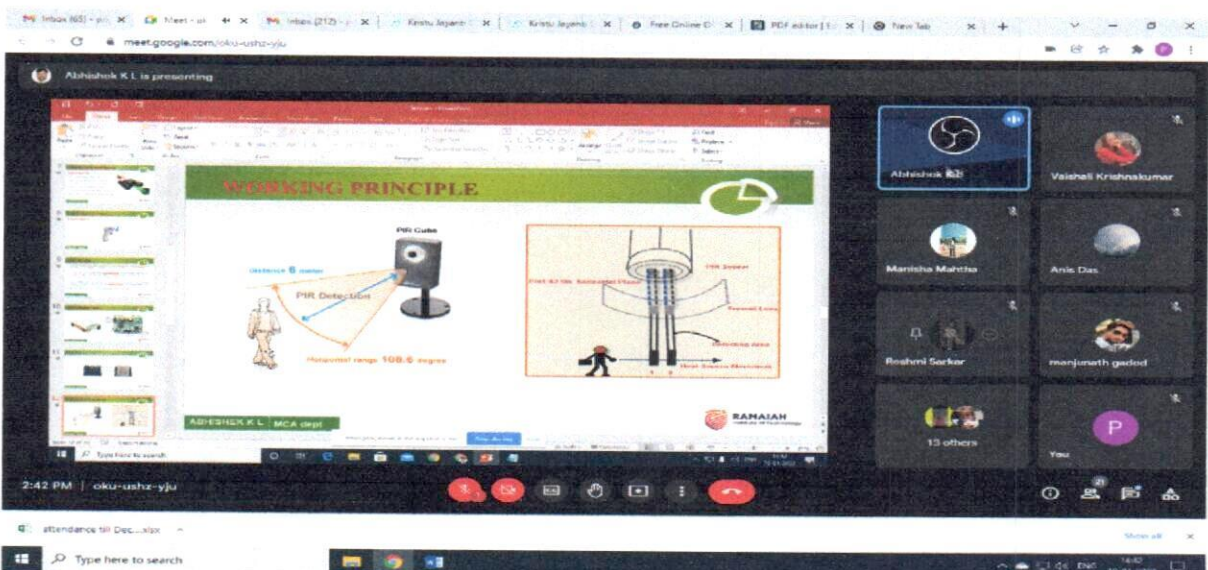
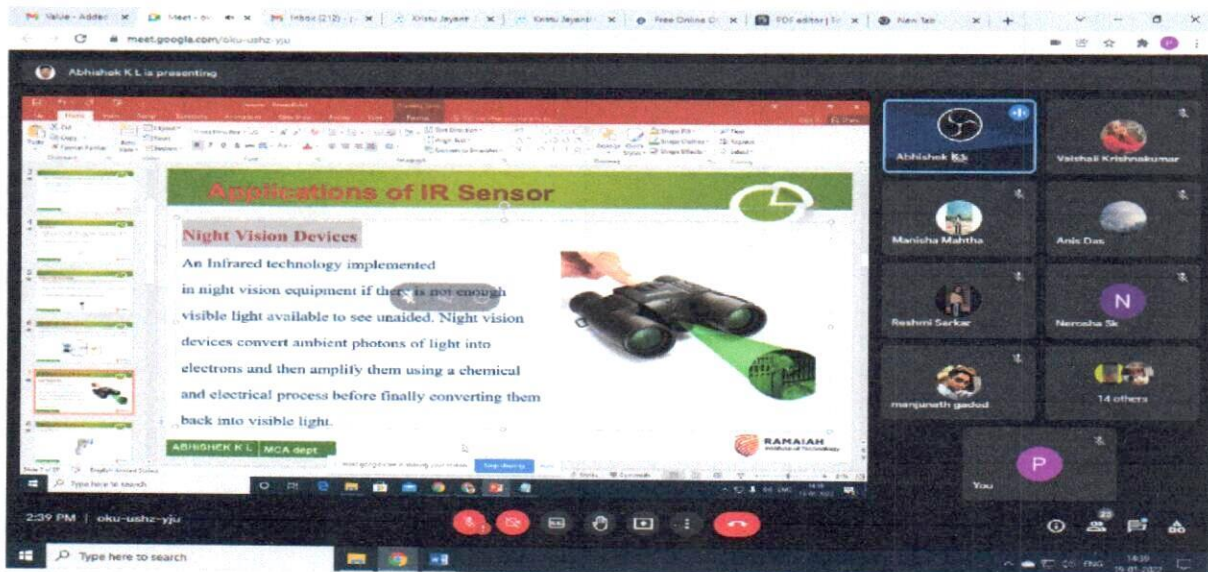
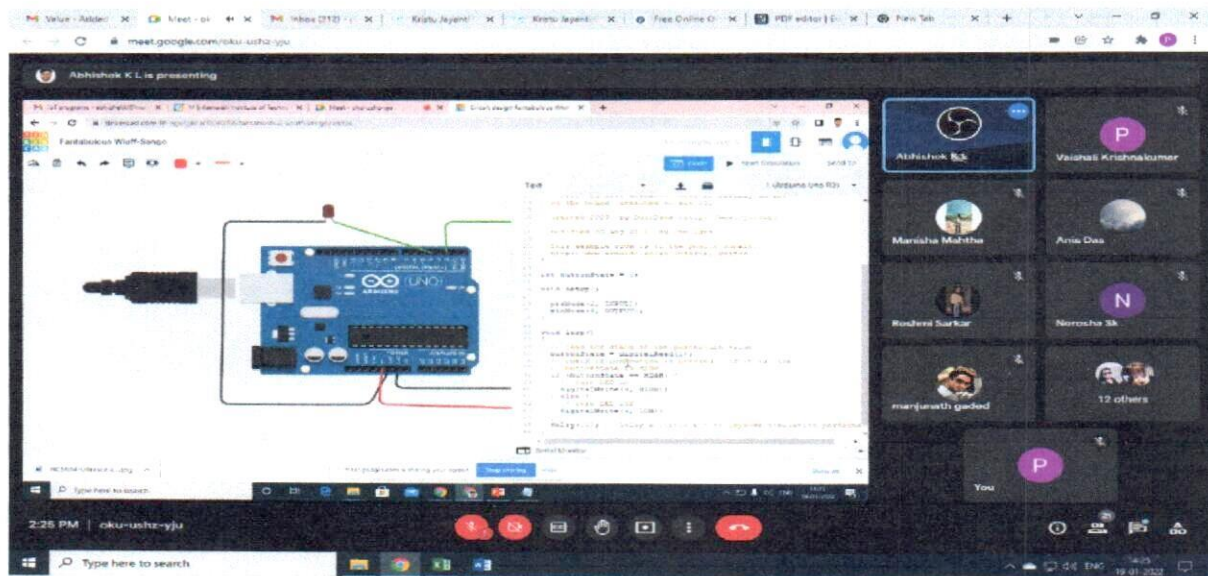
The last day session concluded with the presentation of a vote of thanks to the resource person Mr. **Abhishek KL, Assistant Professor Department** of Master of Computer Applications, MSRIT from Mrs. R. Srividya , senior faculty from the department of Computer Science. Two students also gave the feedback on the session. Students were validated with small test of 20 MCQ questions on the topics covered. Students will be awarded with a certificate.

Outcome: Understand how to evaluate models generated from data. Apply the algorithms to a real problem.



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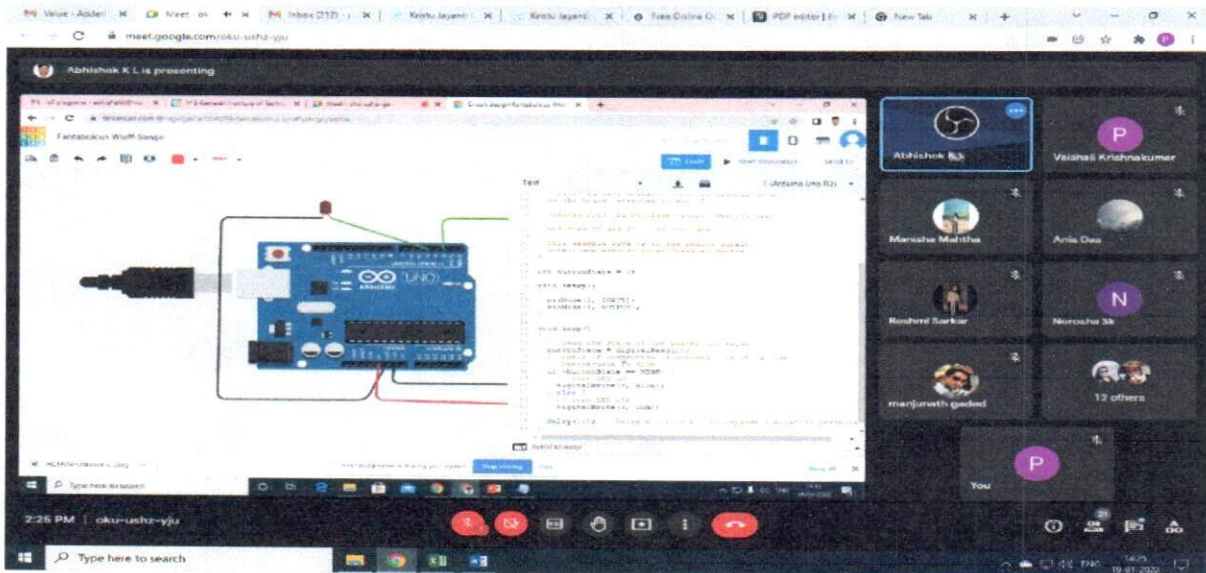
Value added course IOT from 5th January 2022



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Value added course IOT from 5th January 2022

Abhishek K L is presenting



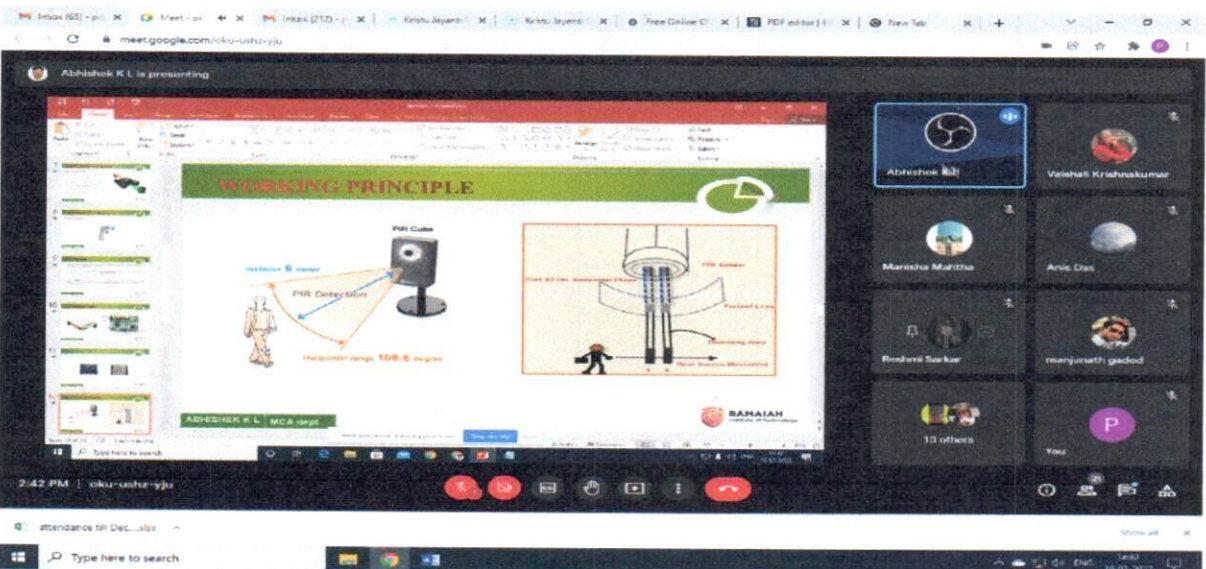
2:25 PM | oku-usht-yju

Abhishek K L is presenting



2:39 PM | oku-usht-yju

Abhishek K L is presenting



2:42 PM | oku-usht-yju

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Department of Computer Science
Value Added Course : Internet of Things- IOT

| | Timestamp | Email address | Name | Register Number | Please select the semester you are currently studying |
|----|----------------------|--|------------------------------|-----------------|---|
| 1 | 2-3-2022 11:33:35 | veena197301@gmail.com | AARON V SULAKHE | 21BCA001 | 1 st Sem |
| 2 | 2-3-2022 12:28:19 | abhigyanroy001@gmail.com | ABHIGYAN KUMAR ROY | 21BCA002 | 1 st Sem |
| 3 | 2-3-2022 11:29:05 | abhimari.2001@gmail.com | ABHISHEK M | 21BCA003 | 1 st Sem |
| 4 | 2-3-2022 10:30:27 | deputtp@gmail.com | AJAY KRISHNAN H | 21BCA004 | 1 st Sem |
| 5 | 2-3-2022 10:31:39 | akshayanoop65@gmail.com | AKSHAY A | 21BCA005 | 1 st Sem |
| 6 | 2-3-2022 1:31:59 | amruthacvcsbat20@gmail.com | AMRUTHA C V | 21BCA006 | 1 st Sem |
| 7 | 2-3-2022 1:32:20 | anamikamohan783@gmail.com | ANAMIKA MOHAN | 21BCA007 | 1 st Sem |
| 8 | 2-3-2022 10:32:52 | anaswarasyamalan@gmail.com | ANASWARA S | 21BCA008 | 1 st Sem |
| 9 | 2-3-2022 10:33:41 | lodhiarava19@gmail.com | ARAVA LOHITH | 21BCA009 | 1 st Sem |
| 10 | 2-3-2022 10:34:00 | arju2222tvm@gmail.com | ARJUN KRISHNA J | 21BCA010 | 1 st Sem |
| 11 | 2-3-2022 10:34:10 | aryadubey7644@gmail.com | ARYA DUBEY | 21BCA011 | 1 st Sem |
| 12 | 2-3-2022 11:34:12 | ashishprabhu150@gmail.com | ASHISH UJJINI C P | 21BCA012 | 1 st Sem |
| 13 | 2-3-2022 10:35:08 | athish.mp2003@gmail.com | ATHISH MILLENN PRAKASH | 21BCA013 | 1 st Sem |

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| | | | | | |
|----|----------------------|--|---------------------------|----------|---------------------|
| 14 | 2-3-2022 10:37:36 | Avinuz10@gmail.com | AVINASH | 21BCA014 | 1 st Sem |
| 15 | 2-3-2022 10:37:55 | bhavyabedi21@gmail.com | BHAVYA BEDI | 21BCA015 | 1 st Sem |
| 16 | 2-3-2022 10:38:32 | Bhoomika076@gmail.com | BHOOMIKA S PATIL | 21BCA016 | 1 st Sem |
| 17 | 2-3-2022 10:38:37 | bhumikashyam3009@gmail.com | BHUMIKA S | 21BCA017 | 1 st Sem |
| 18 | 2-3-2022 10:39:00 | reshmagowda123@gmail.com | CHANDAN S | 21BCA018 | 1 st Sem |
| 19 | 2-3-2022 10:39:03 | deepakdion099@gmail.com | DEEPAK DION P | 21BCA019 | 1 st Sem |
| 20 | 2-3-2022 10:39:17 | deepaksharadha@gmail.com | DEEPAK S | 21BCA020 | 1 st Sem |
| 21 | 2-3-2022 10:39:19 | gopikadeepika313@gmail.com | DEEPIKA KRISHNA P C | 21BCA021 | 1 st Sem |
| 22 | 2-3-2022 10:39:23 | DhanushKumarM003@gmail.com | DHANUSH KUMAR M | 21BCA022 | 1 st Sem |
| 23 | 2-3-2022 10:39:30 | ferdinandbiju.13@gmail.com | FERDINAND JOY BIJU | 21BCA023 | 1 st Sem |
| 24 | 2-3-2022 10:39:45 | deepskumar194@gmail.com | G K DEEPIKA | 21BCA024 | 1 st Sem |
| 25 | 2-3-2022 10:40:01 | gaganayadav29@gmail.com | GAGANASHREE C | 21BCA025 | 1 st Sem |
| 26 | 2-3-2022 10:40:45 | keshhavi.el@gmail.com | HARIKESH E L | 21BCA026 | 1 st Sem |
| 27 | 2-3-2022 10:41:06 | ht177982@gmail.com | HARSH TIWARI | 21BCA027 | 1 st Sem |
| 28 | 2-3-2022 10:41:25 | harshit.radakrishnan@gmail.com | HARSHIT R | 21BCA028 | 1 st Sem |
| 29 | 2-3-2022 10:41:58 | hemanthbalakrishna24@gmail.com | HEMANTH B | 21BCA029 | 1 st Sem |
| 30 | 2-3-2022 10:49:50 | jnvreddynvr@gmail.com | J NAGAVARDHAN REDDY | 21BCA030 | 1 st Sem |
| 31 | 2-3-2022 10:50:57 | jatinsaraogi@gmail.com | JATIN SARAOGI | 21BCA031 | 1 st Sem |
| 32 | 2-3-2022 10:51:08 | jeevitharamesh0123@gmail.com | JEEVITHA K R | 21BCA032 | 1 st Sem |
| 33 | 2-3-2022 10:51:20 | jessonkroji18@gmail.com | JESSON SAMUEL ROJI | 21BCA033 | 1 st Sem |
| 34 | 2-3-2022 10:51:27 | gkavana006@gmail.com | KAVANA M | 21BCA034 | 1 st Sem |
| 35 | 2-3-2022 10:51:45 | kenzrahman007@gmail.com | KENZ RAHMAN | 21BCA035 | 1 st Sem |
| 36 | 2-3-2022 10:51:47 | krkiran571@gmail.com | KIRAN K R | 21BCA036 | 1 st Sem |
| 37 | 2-3-2022 10:51:48 | kushal7124@gmail.com | KUSHAL KUMAR M | 21BCA037 | 1 st Sem |

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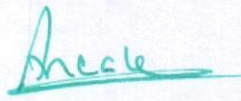
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|----|----------------------|--|------------------------------------|----------|---------------------|
| 38 | 2-3-2022 10:51:49 | likithbd11@gmail.com | LIKITH ABHINAV N V | 21BCA038 | 1 st Sem |
| 39 | 2-3-2022 10:52:22 | nmmeghana1178@gmail.com | MAHALAKSHMI MEGHANA NEKKANTI | 21BCA039 | 1 st Sem |
| 40 | 2-3-2022 10:52:26 | maniliki007@gmail.com | MANIKANTAN S | 21BCA040 | 1 st Sem |
| 41 | 2-3-2022 3:53:12 | payal.mahesgbhai.mehtu@gmail.com | MEHTA PAYAL MAHESHBHAI | 21BCA041 | 1 st Sem |
| 42 | 2-3-2022 10:53:19 | reshmakunnath@gmail.com | MITHUN RAJ K V | 21BCA042 | 1 st Sem |
| 43 | 2-3-2022 10:53:20 | mohiitraaaj@gmail.com | MOHIT RAJ | 21BCA043 | 1 st Sem |
| 44 | 2-3-2022 10:53:59 | niranjangowda717@gmail.com | NAVYA A | 21BCA044 | 1 st Sem |
| 45 | 2-3-2022 10:54:03 | nehadkabadi@gmail.com | NEHA D KABADI | 21BCA045 | 1 st Sem |
| 46 | 2-3-2022 10:54:11 | knight25may2002@gmail.com | NISHANT KUMAR | 21BCA046 | 1 st Sem |
| 47 | 2-3-2022 10:55:11 | nived611@gmail.com | NIVED SREEPAL | 21BCA047 | 1 st Sem |
| 48 | 2-3-2022 10:55:21 | jananipr26@gmail.com | P R JANANI | 21BCA048 | 1 st Sem |
| 49 | 2-3-2022 10:57:06 | prajwaldd2003@gmail.com | PRAJWAL D D | 21BCA049 | 1 st Sem |
| 50 | 2-3-2022 10:57:35 | prashant.e.kr@gmail.com | PRASHANT KUMAR | 21BCA050 | 1 st Sem |
| 51 | 2-3-2022 10:58:01 | prasurjyasarma9@gmail.com | PRASURJYA SARMA | 21BCA051 | 1 st Sem |
| 52 | 2-3-2022 10:59:59 | priyaranjansree123@gmail.com | PRIYARANJAN S | 21BCA052 | 1 st Sem |
| 53 | 2-3-2022 11:00:30 | pruthvi.g848@gmail.com | PRUTHVI M | 21BCA053 | 1 st Sem |
| 54 | 2-3-2022 11:02:33 | rajdeep.banerjee70@gmail.com | RAJDEEP BANERJEE | 21BCA054 | 1 st Sem |
| 55 | 2-3-2022 11:03:33 | jagruthi.rao@yahoo.com | S JAGRUTHI | 21BCA055 | 1 st Sem |
| 56 | 2-3-2022 11:04:21 | samridhisrivastav28@gmail.com | SAMRIDHI SRIVASTAVA | 21BCA056 | 1 st Sem |
| 57 | 2-3-2022 11:05:59 | samskruthikeshavan@gmail.com | SAMSKRUTHI KESHAVAN | 21BCA057 | 1 st Sem |
| 58 | 2-3-2022 11:07:41 | shivarama.official@gmail.com | SHIVA RAMA KRISHNAN P | 21BCA058 | 1 st Sem |
| 59 | 2-3-2022 11:07:48 | shivendh2352@gmail.com | SHIVENDH SANJAY | 21BCA059 | 1 st Sem |

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|----|----------------------|--|------------------------------|----------|---------------------|
| 60 | 2-3-2022 11:08:06 | shreyashbhardwaj2002@gmail.com | SHREYASH BHARDWAJ | 21BCA060 | 1 st Sem |
| 61 | 2-3-2022 11:11:27 | pjmurale@gmail.com | SHRIJHA J M | 21BCA061 | 1 st Sem |
| 62 | 2-3-2022 12:09:07 | soorajsatheesh5673@gmail.com | SOORAJ SATHEESH | 21BCA062 | 1 st Sem |
| 63 | 2-3-2022 12:09:21 | lokeshpandhana4@gmail.com | SPANDHANA LOKESH | 21BCA063 | 1 st Sem |
| 64 | 2-3-2022 12:10:08 | sreeraj21sn@gmail.com | SREERAJ S N | 21BCA064 | 1 st Sem |
| 65 | 2-3-2022 12:10:25 | sujayreddy29@gmail.com | SUJAY REDDY C R | 21BCA065 | 1 st Sem |
| 66 | 2-3-2022 12:10:30 | facttechxplore@gmail.com | SUMITH KUMAR R | 21BCA066 | 1 st Sem |
| 67 | 2-3-2022 12:10:35 | kittyraj106@gmail.com | SUNNYKUMAR S | 21BCA067 | 1 st Sem |
| 68 | 2-3-2022 12:10:42 | red dysuryasimha@gmail.com | SURYA SIMHA REDDY Y D | 21BCA068 | 1 st Sem |
| 69 | 2-3-2022 10:10:49 | abu804988@gmail.com | SYED SUFIYAN | 21BCA069 | 1 st Sem |
| 70 | 2-3-2022 12:11:07 | tanigowda04@gmail.com | TANISHQ G | 21BCA070 | 1 st Sem |
| 71 | 2-3-2022 12:11:14 | tanya12tia@gmail.com | TANYA KUNWAR | 21BCA071 | 1 st Sem |
| 72 | 2-3-2022 11:11:18 | thanushreepp@gmail.com | THANUSHREE M P | 21BCA072 | 1 st Sem |
| 73 | 2-3-2022 12:11:23 | inversewarfare@gmail.com | VAIBHAV BANSAL | 21BCA073 | 1 st Sem |
| 74 | 2-3-2022 12:11:33 | varshini1807@gmail.com | VARSHINI N | 21BCA074 | 1 st Sem |
| 75 | 2-3-2022 12:11:38 | varunvarun2081@gmail.com | VARUN M | 21BCA075 | 1 st Sem |
| 76 | 2-3-2022 12:11:45 | vedanshsetia@gmail.com | VEDANSH SETIA | 21BCA076 | 1 st Sem |
| 77 | 2-3-2022 12:11:51 | keerthana8338@gmail.com | Y KEERTHANA | 21BCA077 | 1 st Sem |
| 78 | 2-3-2022 12:11:56 | bharathnani181@gmail.com | YARRA BHARATH KUMAR REDDY | 21BCA078 | 1 st Sem |
| 79 | 2-3-2022 12:15:45 | yashwanth1522003@gmail.com | YASHAVANTH N | 21BCA079 | 1 st Sem |
| 80 | 2-3-2022 12:25:45 | yuvrajnavndra@idoud.com | YUVRAJ NARENDRASWA MY | 21BCA080 | 1 st Sem |

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DBT Star College Scheme

Department of Computer Science

Name of the program: “*Internet of Things- IOT*”

Year: 2021-22

Duration: 30 hours

Assessment procedure for value added course: Software testing using selenium

Objective: To develop skills required on “*Internet of Things- IOT*” is an activity which aims at evaluating the quality of a software developers to store the data.

The Department of computer science had organized value added course from 05/01/2022 to 03/02/2022 for BCA students. Total of 80 students had participated in this course.

The certificates were given to all the participants after successfully completion of the course by assessing their knowledge gained during this course. The gained knowledge was assessed with the help of MCQ's

Assessment procedure:

| Criteria | Marks |
|------------|-------|
| MCQ | 20 |
| Attendance | 10 |
| Practicals | 10 |
| Total | 40 |

Outcome: Understand how to evaluate models generated from data. Apply the algorithms to a real problem.

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Department: Computer Science**Name of the program: "Internet of Things- IOT"****1. What role of the cloud in smart grid architecture is?**

Collect data
 Manage data
 Security
 Store data

2. Through which network does Open IoT manage registration, deployment of sensors?

LSM
 HTTP
 X-GSN
 GSN

3. Identify the java extension file in IoT.

.c
 .py
 .exe
 .jar

4. Total types of voice communications in IoT environment is?

1
 2
 3
 4

5. The standard length of the MAC address is

16 bits
 48 bits
 32 bits
 8 bits

6. VNC stands for _____

Virtual network communication
 Virtual network computing
 Virtual network computers
 None

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7. Identify the language preferred for IoT analytics.

Python
HTML
PHP
C++

8. Who operates the core element?

PaaS
IaaS
IoT service provider
SaaS

9. Identify the incorrect advantage of IoT.

Reduce waste
Enhanced data collection
Improve customer engagement
Security

10. Who coined the term IoT?

IBM
Kevin Ashton
Ross Ihaka
Guido van Rossum

11. Service is termed as _____, in SOA

Network service
Software service
Business service
Developer service

12. Through API, _____ service portability is enabled.

device
network
services
systems

13. Identify the challenge coming under securing the information.

security
Power consumption
Presence detection
signaling

14. Full form of SBC is?

Standard business center
Smart business center
Standard building center
Smart building center

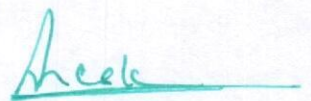
15. Total types in which IoT platform is divided.

4
3
5

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16. ITS stands for _____

Internet travel services

Intelligent transportation security

Intelligent transportation services

Internet transport security

17. Which of the following allows to monitor the application

boot

hypermedia

actuators

endpoints

18. In which of the following terms in resolution expressed?

bits

bytes

nibble

word

19. SLA stands for _____

System local area

Service local area

System-level argument

Service level argument

20. Identify the last step of reliable data transfer.

Selective recovery

Lost message detection

Message relaying

Initialization



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