



SRI SRINIVASA EDUCATIONAL AND CHARITABLE TRUST®
SAPTHAGIRI COLLEGE OF ENGINEERING
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DEPARTMENT OF ISE



Date: 12/07/2021

CIRCULAR

Subject: Academic committee members meeting for analyzing curriculum syllabus of Academic Year 2021-22

This is to inform that there will be a meeting of Academic committee members for analyzing curriculum syllabus of academic year 2021-22. The meeting is scheduled on 14/09/2021 at 10.30 am in HOD's chamber.

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Dr. Asha P N	Associate Professor	
3	Prof. Prerana Chaithra	Associate Professor	
4	Prof. Sudarsanan D	Assistant Professor	
5	Prof. Gayathri R	Assistant Professor	

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

HOD
Dr H.R Ranganatha
Prof. & H.O.D
Dept.of Information Science & Engg.
Sapthagiri College of Engineering
14/5 Chikkasandra, Hesaraghatta Main Road
BENGALURU-560 057

Date: 14/09/2021

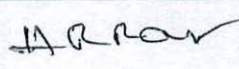
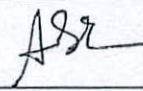

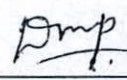

MINUTES OF MEETING

With reference to circular dated on 14/07/2021, the academic committee member assembled in HODs chamber for addressing the following agenda.

Agenda:

- Reviewing the department curriculum syllabus of Academic Year 2021-22
- Reviewing the feedback analysis of various stake holders of the academic year 2020-21
- Identifying the gaps
- Action to be taken for the identified gaps.

During the meeting the following members were present

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Dr. Asha P N	Associate Professor	
3	Prof. Prerana Chaithra	Associate Professor	
4	Prof. Sudarsanan D	Assistant Professor	
5	Prof. Gayathri R	Assistant Professor	

The following points were discussed in the meeting

1. The committee members reviewed the department curriculum syllabus of academic year 2021-22.
2. The committee members discussed about the feedback of department curriculum syllabus of academic year 2020-21.
3. The members identified the gaps based on the analysis.
4. The following actions were taken for the gaps that are identified.


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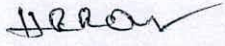


SL.NO	SEM	Course Title	Identified Gap
1	V-A/B	IOT Blended with Blockchain Technology	Lack of Knowledge in Recent Trends

Action Taken:

Based on the feedback obtained from students, faculties and alumni, analysis of syllabus by department academic committee members, it was decided to conduct certification course on "IOT Blended with Blockchain Technology" to overcome the gaps identified in the curriculum/syllabus.


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Date: 14/07/2021

To

IQAC

Sapthagiri College of Engineering

Bengaluru-560 057

Respected Sir,

Subject: Requisition for conduction of certification program and approval
from Governing Council.

With respect to the Academic committee members meeting held for analyzing department curriculum/syllabus for the academic year 2020-21. The committee members identified few gaps after analyzing the syllabus and feedback from the stakeholders. To bridge the gaps identified in the curriculum, the committee members decided to conduct a certification program on **"IOT Blended with Blockchain Technology"** for the academic year 2021-22. So, I request you to forward and get the approval from the governing council for the same.

Thanking You,

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Permitted

IQAC - Co-ordinator

Sapthagiri College of Engineering
Bengaluru - 560 057.

HOD

Dr H.R. Ranganatna
Prof. & H.O.D

Dept.of Information Science & Engg.
Sapthagiri College of Engineering
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Date: 16-07-2021

To,

THE PRINCIPAL

Sapthagiri College of Engineering

Bangalore - 560057.

Respected Sir,

Subject: Budget Proposal for conduction of certification program on "IOT
Blended with Blockchain Technology".


The Budget Proposal for conduction a certification program on "IOT Blended with
Blockchain Technology" from 23/09/2021 to 29/09/2021 is hereby enclosed for your kind
consideration and approval.

The details of the Recurring budget are given as follows:

Recurring Amount:

Sl. No.	Description	Quantity	Amount in Rs.
1	Bouquet	1	200
2	Snacks	Students	1000
3	Renumeration, TA & DA	1	5000
Total			6200


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Date: 01/09/2021

CIRCULAR

This is to inform that the following Academic Committee members are requested to attend the meeting on 03/09/2021 at 10.30AM in the HODs chamber to decide the syllabus and the lesson plan for the certification program on "IOT Blended with Blockchain Technology".

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Dr. Asha P N	Associate Professor	
3	Prof. Prerana Chaithra	Associate Professor	
4	Prof. Sudarsanan D	Assistant Professor	
5	Prof. Prof. Gayathri R	Assistant Professor	

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Date:01/09/2021

To,

Prof. Basavaraj
Assistant Professor,
Department of ISE,
Sambhram Institute of technology
Bengaluru

Respected Sir,

Subject: Invitation as a "Resource Person" in certification program and to attend
meeting to discuss about the certification program

Department of Information Science & Engineering have planned to conduct a
certification program titled "**IOT Blended with Blockchain Technology**" for 5th semester
students from 23-09-2021 to 29-09-2021. In this connection, we are privileged to invite you
as a guest speaker on the above mentioned topic.

Thanking you for your kind acceptance to our request on phone. We request you to
attend the meeting to discuss about the conduction of certification course on 03/09/2021.
We look forward to welcome you at SCE.

Thanking you

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Sapthagiri College of Engineering
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Yours faithfully

HOD
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Prof. & H.O.D

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BENGALURU-560 057

Date : 03/09/2021

Minutes of Meeting

A meeting was conducted on 03/09/2021 in ISE HOD's Chamber to discuss and approve the following about the 6 days Certification Course for 5th semester ISE Students.

- **Course Title : "IOT Blended with Blockchain Technology"**
- **Resource Personnel:** Prof. Basavaraj, Asst Professor, Dept of CSE, Sapthagiri College of Engineering, Bengaluru.
- **Course Duration & Date:** 5 Days from 23-Sept-2021 to 29-Sept-2021

Lesson Plan of the certification program

Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00 am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm)	Name of Faculty Session Handling
23-09-2021	<ul style="list-style-type: none"> • Introduction to the Internet of Things • Introduction to Raspberry Pi 	<ul style="list-style-type: none"> • Introduction to Blockchain • Introduction to Hyperledger 	<ul style="list-style-type: none"> • Hands on Session • Distributed Ledger Technology • Scalability in DLT of Blockchain 	S1: Prof. Basavaraju S2: Prof. Priyanka R S3: Prof. Basavaraju
24-09-2021	<ul style="list-style-type: none"> • IoT Architecture • Recent protocols in IoT (6LoWPAN, RPL, MQTT, Zigbee) 	<ul style="list-style-type: none"> • Ways to strengthen iot security with blockchain technology • Components of Blockchain. 	<ul style="list-style-type: none"> • Hands on Session • Building the First Network Configuration 	S1: Prof. Gayathri R S2: Prof. Chaithanaya V S3: Prof. Basavaraju
25-09-2021	<ul style="list-style-type: none"> • Sending IoT Data to Blockchain • Extending the App to send multiple data 	<ul style="list-style-type: none"> • IOT Paradigms • Blockchain v/s Bitcoin 	<ul style="list-style-type: none"> • Build trust in your IoT data Customer centric 	S1: Prof. Ramya R S2: Prof. Roopa K T S3:


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Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm) Detailed Contents	Name of Faculty Session Handling
27-09-2021	<ul style="list-style-type: none">Extending the App to send multiple dataReal-world solutions	<ul style="list-style-type: none">Roadmap of Blockchain & IoT<ul style="list-style-type: none">Industrial IoT requirements	<ul style="list-style-type: none">Hands on IOT –Networking Config to Cloud Data and data sets. <div>S1: S2: S3:</div>	Dr. Asha P N Prof.Sowmya Somanth
28-09-2021	<ul style="list-style-type: none">Cloud-centric Internet of ThingsData pre-processing and analysis	<ul style="list-style-type: none">Building the First Network ConfigurationM2M to IoT	<ul style="list-style-type: none">Potential IoT applications like Smart health, Smart home, etc.Practical demonstration using Thing speak <div>S1: S2: S3:</div>	Prof.Prerana Chaithra Prof. Chaithra B M
29-09-2021	<ul style="list-style-type: none">Security and privacy issues in IoTEnergy harvesting for IoT applicationsResearch challenges in IoT	<ul style="list-style-type: none">Building First Hyper ledger App and Interactive Session with students	Hands on and Test conduction <div>S1: S2: S3:</div>	Prof. Sudarsanan D Prof. Divya B S

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The following members were present in the meeting and the syllabus and lesson plan for the certification program has been decided.

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1	Dr. H. R Ranganatha	HOD	
2	Dr. Asha P N	Associate Professor	
3	Prof. Prerana Chaithra	Associate Professor	
4	Prof. Sudarsanan D	Assistant Professor	
5	Prof. Gayathri R	Assistant Professor	
6	Prof. Basavaraj	Resource Person	

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NOTICE

As a part of programming skill development Department of Information Science and Engineering is conducting Six days Certification Course on **"IOT Blended with Blockchain Technology"** from 23-Sept-2021 to 29-Sept-2021

All the 5th sem ISE students must attend the course compulsorily.

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Student list for Certification Course" IOT Blended with Blockchain Technology"

Branch : ISE

Semester : 5 A

Sl. No.	USN	Name of the Student	Signature
1	1SG19IS001	ADITYA RAJ	Aditya Raj
2	1SG19IS002	AKANKSHA KUMARI GUPTA	Akanksha kumar gupta
3	1SG19IS003	AMAN BHARDWAJ	Amam Bhartwaj
4	1SG19IS004	ANANT SHRIPAD HEDGE	Anant
5	1SG19IS005	ANIKET SHUKLA	Aniket
6	1SG19IS006	ANITHA N	Anitha
7	1SG19IS007	ANJALI	Anjali
8	1SG19IS008	ANJALI JHA	Anjali
9	1SG19IS009	ANKITA N	Ankita
10	1SG19IS010	ANSHUMAN MISHRA	Anshuman Mishra
11	1SG19IS011	ANUSHA M	Anusha
12	1SG19IS012	ANUSHKA PRIYA	Anushka
13	1SG19IS013	APOORVA R	Apoorva R
14	1SG19IS014	ASHARANI MG	Asharani MG
15	1SG19IS015	ASHRITHA N	Ashritha
16	1SG19IS016	ASHWINI M	Ashwini M
17	1SG19IS017	AVINASH KUMAR	Avinash
18	1SG19IS018	AYUSH KUMAR DUBEY	Ayush Kumar dubey
19	1SG19IS019	AYUSH SINHA	Ayush Sinha
20	1SG19IS020	B S ANIRUDDHA	B S Aniruddha
21	1SG19IS021	BALAJI U	Balaji U
22	1SG19IS022	BHAVANA N	Bhavana
23	1SG19IS024	BRHMADIC KUMAR GAUTAM	Brhmadi k kumar gautam
24	1SG19IS025	CHAITRA TP	Chaitra
25	1SG19IS026	D DHULASI DHEEPHI	Dheepthi
26	1SG19IS028	DEVIKA R	Devika
27	1SG19IS029	G HIMABINDHU	G Himabindhu
28	1SG19IS030	GAGAN BG	Gagan
29	1SG19IS031	GAURAV R	Gaurav R
30	1SG19IS032	GOKUL DAS K	Gokul
31	1SG19IS033	GOURAV RAO Y	Gourav Rao Y
32	1SG19IS034	H M SHREYA	H M Shreya
33	1SG19IS035	HARSH KUMAR AMBASTA	Harsh Kumar
34	1SG19IS036	HARSHITH C M	Harshith C M

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35	1SG19IS037	HARSHITHA H M	<i>Harshitha H M</i>
36	1SG19IS038	HARSHITHA M	<i>Harshitha M</i>
37	1SG19IS039	JAHNAVI B N	<i>Jahnavi BN</i>
38	1SG19IS040	JANAVI S	<i>Janavi</i>
39	1SG19IS041	JYOTHI G	<i>Jyothi G.</i>
40	1SG19IS042	KAPILA RAJESHWARI S	<i>Kapila</i>
41	1SG19IS043	KARTHIK BHARADWAJ P	<i>P. Kartik</i>
42	1SG19IS044	KAVANA SD	<i>Kavana SD</i>
43	1SG19IS045	KAVYA B R	<i>Kavya BR</i>
44	1SG19IS046	KHUSHI SINHA	<i>Kirti Kumar</i>
45	1SG19IS047	KIRTI KUMAR	<i>Krishna</i>
46	1SG19IS048	KRISHNA LATH	<i>Kirti</i>
47	1SG19IS049	KUMAR SHREEYUSH	<i>Kumar Shreeyush</i>
48	1SG19IS050	LOHITH B N	<i>Manjesh</i>
49	1SG19IS051	MANJESH KUMAR L D	<i>Manjesh</i>
50	1SG19IS052	MESHU PRIY	<i>Mesha Priy</i>
51	1SG19IS053	MITHUN KUMAR PH	<i>Mithun</i>
52	1SG19IS054	MOHAN N	<i>Mohan N</i>
53	1SG19IS055	MONICA D	<i>Monica</i>
54	1SG19IS056	N RACHANA ADIGA	<i>N Rachana</i>
55	1SG19IS057	NAKUL VISHNU ACHARI	<i>Nakul</i>
56	1SG19IS058	NALLAGATLA SATYA VENKATA NARASIMHA	<i>Nallagatla</i>
57	1SG19IS059	NAMRATHA N	<i>Namratha N.</i>
58	1SG19IS060	NIHARIKA JAGADEESH PATIL	<i>Niharika Jagadeesh</i>
59	1SG19IS061	NIKESH KUMAR	<i>Nikesh</i>
60	1SG19IS062	NISHA A B	<i>Nisha</i>
61	1SG19IS063	NITHIN J	<i>Nithin</i>
62	1SG18IS007	AMAN AKASH	<i>Aman Akash</i>
63	1SG18IS093	SHARAN S	<i>Sharan</i>
64	1SG17IS054	MOHITH D	<i>Mohith D</i>

[Signature]
 Co-ordinators

[Signature]
 Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
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[Signature]
 HOD
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35	1SG19IS098	SHRUTI PANDEY	Shruti
36	1SG19IS099	SHUBHAM AGARWAL	Shubham
37	1SG19IS100	SIDDHI YESHWANT SONWALKAR	Siddhi
38	1SG19IS101	SILPA KUMARI	Silpa
39	1SG19IS102	SK ZAVED AKHTAR	SK
40	1SG19IS103	SOUJANYA	Soujanya
41	1SG19IS104	SRIHARSHA CP	Shrisha
42	1SG19IS105	SRIKANT MISHRA	Srikant
43	1SG19IS106	SUJEET KUMAR	Sujeet Kumar
44	1SG19IS107	SURABHI M	Surabhi
45	1SG19IS108	SWAROOP CHAND J C	Swaroopchand J.C
46	1SG19IS109	SWATHI S	Swathi S
47	1SG19IS110	TANYAPRASAD	Tanya
48	1SG19IS111	TARUN S	Tarun
49	1SG19IS112	TEJAS MC	Tejas
50	1SG19IS113	ULLAS G	Ullas
51	1SG19IS114	UTKARSH MANDILWAR	Utkarsh
52	1SG19IS115	VAISHNAVI M	M Vaishnavi
53	1SG19IS116	VIGNESH K	Vignesh
54	1SG19IS117	VIGNESH SHANUBHOG H	Vignesh
55	1SG19IS119	VIKRANT	Vikrant
56	1SG19IS120	VISHAL SAI S	Vishal
57	1SG19IS121	WAMIQUE HASHMI	Wamique Hashmi
58	1SG19IS122	YASHASWINI K S	Yashaswini K.S.
59	1SG19IS123	YASHASWINI R	Yashaswini R.
60	1SG19IS124	YOGEESHWAR P	Yogeeswar P.
61	1SG19IS125	ZILLE HUSSAIN	Zilla Hussain
62	1SG19IS126	NADEEM PASHA	Nadeem Pasha
63	1SG19IS127	AMAR SINGH	Amar Singh
64	1SG20IS400	NAISARGI DAVE	Naisargi
65	1SG20IS401	ANKIT KUMAR DAS	Ankit
66	1SG20IS402	CHANDANA S	Chandana S
67	1SG20IS403	SUPRIYA MODAK	Supriya Modak

Co-ordinators

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Student Attendance for Certification Course

" IOT Blended with Blockchain Technology"

Branch : ISE

Semester : 5 A

Sl. No.	USN	Name of the Student	23/9/21	24/9/21	25/9/21	27/9/21	28/9/21	29/9/21
1	1SG19IS001	ADITYA RAJ	P	P	P	P	A	P
2	1SG19IS002	AKANKSHA KUMARI GUPTA	P	P	P	P	P	A
3	1SG19IS003	AMAN BHARDWAJ	P	P	P	A	P	P
4	1SG19IS004	ANANT SHRIPAD HEDGE	P	A	P	A	P	P
5	1SG19IS005	ANIKET SHUKLA	P	P	P	P	P	P
6	1SG19IS006	ANITHA N	A	P	P	A	P	P
7	1SG19IS007	ANJALI	P	P	P	A	A	P
8	1SG19IS008	ANJALI JHA	P	P	P	A	P	P
9	1SG19IS009	ANKITA N	P	A	P	A	P	A
10	1SG19IS010	ANSHUMAN MISHRA	P	A	P	P	P	P
11	1SG19IS011	ANUSHA M	A	A	P	P	P	P
12	1SG19IS012	ANUSHKA PRIYA	P	P	P	P	P	P
13	1SG19IS013	APOORVA R	P	P	P	P	P	P
14	1SG19IS014	ASHARANI MG	P	P	P	P	P	P
15	1SG19IS015	ASHRITHA N	P	P	P	P	P	P
16	1SG19IS016	ASHWINI M	A	P	P	P	A	P
17	1SG19IS017	AVINASH KUMAR	A	P	P	P	P	P
18	1SG19IS018	AYUSH KUMAR DUBEY	P	P	P	P	P	P
19	1SG19IS019	AYUSH SINHA	P	A	P	P	P	P
20	1SG19IS020	B S ANIRUDDHA	P	A	P	P	P	P
21	1SG19IS021	BALAJI U	P	P	P	P	P	P
22	1SG19IS022	BHAVANA N	A	P	P	A	P	P
23	1SG19IS024	BRHMADIC KUMAR GAUTAM	P	P	P	P	P	P
24	1SG19IS025	CHAITRA TP	P	P	P	P	P	A
25	1SG19IS026	D DHULASI DHEEPHI	P	P	A	P	P	P
26	1SG19IS028	DEVIKA R	P	P	P	P	P	A
27	1SG19IS029	G HIMABINDHU	P	P	P	P	P	P
28	1SG19IS030	GAGAN BG	P	P	P	P	P	P
29	1SG19IS031	GAURAV R	P	P	P	P	P	P
30	1SG19IS032	GOKUL DAS K	A	P	P	P	P	A
31	1SG19IS033	GOURAV RAO Y	P	P	P	P	P	P
32	1SG19IS034	H M SHREYA	P	P	P	P	A	P

Principal

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33	1SG19IS035	HARSH KUMAR AMBASTA	P	P	P	P	P	A
34	1SG19IS036	HARSHITH C M	P	A	P	P	P	P
35	1SG19IS037	HARSHITHA H M	P	A	P	P	P	P
36	1SG19IS038	HARSHITHA M	P	A	P	P	P	P
37	1SG19IS039	JAHNAVI B N	P	P	P	A	P	P
38	1SG19IS040	JANAVI S	P	P	A	P	P	P
39	1SG19IS041	JYOTHI G	A	P	A	P	P	P
40	1SG19IS042	KAPILA RAJESHWARI S	P	P	P	P	P	P
41	1SG19IS043	KARTHIK BHARADWAJ P	P	P	A	P	P	P
42	1SG19IS044	KAVANA SD	P	P	P	P	P	P
43	1SG19IS045	KAVYA B R	A	P	P	P	P	P
44	1SG19IS046	KHUSHI SINHA	P	A	P	P	P	P
45	1SG19IS047	KIRTI KUMAR	P	P	P	P	P	P
46	1SG19IS048	KRISHNA LATH	P	P	P	P	P	P
47	1SG19IS049	KUMAR SHREEYUSH	P	P	P	P	P	P
48	1SG19IS050	LOHITH B N	P	P	P	P	P	P
49	1SG19IS051	MANJESH KUMAR L D	P	P	P	A	P	A
50	1SG19IS052	MESHU PRIY	P	P	P	P	P	A
51	1SG19IS053	MITHUN KUMAR PH	P	P	P	A	P	P
52	1SG19IS054	MOHAN N	A	P	P	P	A	P
53	1SG19IS055	MONICA D	P	P	P	P	P	P
54	1SG19IS056	N RACHANA ADIGA	P	P	P	P	P	P
55	1SG19IS057	NAKUL VISHNU ACHARI	A	P	P	P	P	P
56	1SG19IS058	NALLAGATLA SATYA VENKATA NARASIMHA	P	P	P	P	P	P
57	1SG19IS059	NAMRATHA N	A	P	P	P	P	P
58	1SG19IS060	NIHARIKA JAGADEESH PATIL	P	A	P	P	P	P
59	1SG19IS061	NIKESH KUMAR	P	P	P	P	P	P
60	1SG19IS062	NISHA A B	P	P	P	P	P	P
61	1SG19IS063	NITHIN J	P	P	P	P	P	P
62	1SG18IS007	AMAN AKASH	P	P	P	P	P	P
63	1SG18IS093	SHARAN S	P	P	P	P	P	P
64	1SG17IS054	MOHITH D	A	P	P	P	P	P

Co-ordinator

Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 560 057

HOD
 Dr. H.R. Ranganatna
 Prof. & H.O.D
 Dept. of Information Science & Engg.
 Sapthagiri College of Engineering
 # 14/5 Chikkasandra, Hesaraghatta Main Road
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Student Attendance for Certification Course

" IOT Blended with Blockchain Technology"

Branch : ISE

Semester : 5 B

Sl. No.	USN	Name of the Student	23/9/21	24/9/21	25/9/21	27/9/21	28/9/21	29/9/21
1	1SG19IS064	NITHIN S	P	P	P	P	A	P
2	1SG19IS065	NIVEDITHA RAO	P	P	P	P	A	P
3	1SG19IS066	PAVAN GOWDA R	P	P	P	A	P	P
4	1SG19IS067	PRABHAT SHANDILYA	P	A	P	A	P	P
5	1SG19IS068	PRANAM M	P	P	P	A	P	P
6	1SG19IS069	PRANAV N	P	P	P	P	P	P
7	1SG19IS070	PRANAV S HEGDE	P	P	P	P	P	P
8	1SG19IS071	PRASHANT KUMAR	P	P	P	P	P	P
9	1SG19IS072	PRATYAKSHA NARASIMHA AMBIG	P	A	A	P	P	P
10	1SG19IS073	PRINCE MANANI	P	P	P	P	A	P
11	1SG19IS074	PRIYADARSHINI S	P	P	P	A	P	A
12	1SG19IS075	PRIYANKA DN	P	P	P	A	P	P
13	1SG19IS076	PRIYANSH DWIVEDI	P	P	P	P	P	P
14	1SG19IS077	PULKIT KUMAR	P	P	P	P	P	P
15	1SG19IS078	R BHARGAVI	P	P	P	P	P	A
16	1SG19IS079	RACHANA S	P	A	P	P	P	P
17	1SG19IS080	RAHUL B	P	A	P	P	P	P
18	1SG19IS081	RAKSHITHA H	P	A	P	P	P	P
19	1SG19IS082	RAKSHITHA V	P	P	P	P	P	P
20	1SG19IS083	ROHAN R VIBHUTI	P	P	P	P	P	P
21	1SG19IS084	ROHIT B N	P	P	P	P	P	P
22	1SG19IS085	ROHIT KUMAR	P	P	P	P	P	P
23	1SG19IS086	ROHITH GANAPATHI BHAT	P	P	P	P	P	P
24	1SG19IS087	S KAUSHAL	P	P	P	P	P	P
25	1SG19IS088	S SELVA MURUGAN	P	P	P	P	P	P
26	1SG19IS089	SAHANA N	P	P	P	P	P	P
27	1SG19IS090	SANJANA SINHA	P	P	P	P	P	P
28	1SG19IS091	SARVAJIT ASHOK BHAT	P	P	P	P	P	P
29	1SG19IS092	SHABNOOR JAHA	P	P	P	P	P	P
30	1SG19IS093	SHASHANK K G	P	P	P	P	P	P
31	1SG19IS094	SHIVALI B M	P	P	P	P	P	P

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32	1SG19IS095	SHIVAM KUMAR	P	P	P	P	P	P
33	1SG19IS096	SHREYA RANJAN	P	P	P	P	P	P
34	1SG19IS097	SHREYSHI	P	P	P	P	P	P
35	1SG19IS098	SHRUTI PANDEY	P	P	P	P	P	P
36	1SG19IS099	SHUBHAM AGARWAL	A	A	P	P	P	P
37	1SG19IS100	SIDDHI YESHWANT SONWALKAR	P	P	P	P	P	P
38	1SG19IS101	SILPA KUMARI	P	P	A	P	P	P
39	1SG19IS102	SK ZAVED AKHTAR	P	P	A	P	P	P
40	1SG19IS103	SOUJANYA	P	P	P	P	P	P
41	1SG19IS104	SRIHARSHA CP	P	P	P	P	P	P
42	1SG19IS105	SRIKANT MISHRA	P	P	P	P	P	P
43	1SG19IS106	SUJEET KUMAR	P	P	P	P	P	P
44	1SG19IS107	SURABHI M	A	P	P	P	P	P
45	1SG19IS108	SWAROOP CHAND J C	P	P	P	P	P	P
46	1SG19IS109	SWATHI S	P	P	P	P	P	P
47	1SG19IS110	TANYAPRASAD	P	P	P	P	P	P
48	1SG19IS111	TARUN S	P	P	P	P	P	P
49	1SG19IS112	TEJAS MC	P	P	P	P	P	P
50	1SG19IS113	ULLAS G	P	P	P	P	P	P
51	1SG19IS114	UTKARSH MANDILWAR	P	P	A	P	P	P
52	1SG19IS115	VAISHNAVI M	P	P	A	P	P	P
53	1SG19IS116	VIGNESH K	P	P	P	P	P	P
54	1SG19IS117	VIGNESH SHANUBHOG H	P	P	P	P	P	P
55	1SG19IS119	VIKRANT	P	P	P	P	P	P
56	1SG19IS120	VISHAL SAI S	P	P	P	P	P	P
57	1SG19IS121	WAMIQUE HASHMI	P	P	P	P	P	P
58	1SG19IS122	YASHASWINI K S	P	P	P	P	P	P
59	1SG19IS123	YASHASWINI R	P	P	P	P	P	P
60	1SG19IS124	YOGEESHWAR P	P	P	P	P	P	P
61	1SG19IS125	ZILLE HUSSAIN	P	P	P	P	P	P
62	1SG19IS126	NADEEM PASHA	P	P	A	P	P	P
63	1SG19IS127	AMAR SINGH	P	P	P	P	P	P
64	1SG20IS400	NAISARGI DAVE	P	P	P	P	P	P
65	1SG20IS401	ANKIT KUMAR DAS	P	P	P	P	P	P
66	1SG20IS402	CHANDANA S	P	P	P	P	P	P
67	1SG20IS403	SUPRIYA MODAK	P	P	P	P	P	P

Co-ordinator

Principal

Sapthagiri College of Engineering
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 Bengaluru - 560 057

HOD

Dr H.R. Ranganatha
 Prof. & H.O.D

Dept. of Information Science & Engg.
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NOTICE

Test for Six days Certification Course on "IOT Blended with Blockchain Technology" is conducted on 29-Sept-2021 from 3pm to 4 pm. All the 5thsem ISE students must attend the test compulsorily.

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Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

HOD

Dr H.R Ranganatha
Prof. & H.O.D

Dept.of Information Science & Engg.
Sapthagiri College of Engineering
14/5 Chikkasandra, Hesaraghatta Main Road
BENGALURU-560 057

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8. What does a ledger in blockchain does?

- A. Mapping between owner and object B. Identification of objects owned
C. Identification of owners.

9. What is the term for when a blockchain splits?

- A. A fork B. A merger C. A division D. None of above

10. A hybrid blockchain has a combination of features.

- A. Centralized B. Decentralized C. Both Centralized & Decentralized
D. None of above.

11. Who is a miner in blockchain?


- A. Miner is type of blockchain B. Miner is a person doing calculations to verify a transaction
C. Miners are Computers that validate D. None of the above

12. Which of the following is the way in which an IoT device is associated with data?

- A. Internet B. Cloud C. Automata D. Network

13. Which of the following IoT networks has a very short range?

- A. Short Network B. LPWAN C. SigFox D. Short-range Wireless Network


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14. An IoT network is a collection of _____ devices.

A. Signal B. Machine to Machine C. Interconnected D. Network to Network

15. What is the main purpose of WoT (Web of Things) in the IoT?

A. Improve the usability & Interoperability B. Reduce the security.

C. Complex the development D. Increase the cost

16. _____ allows the user to control electronic components.

A. Android API B. RETful API C. MQTT API D. CoAP API

17. What is another name for I2C?

A. Signal wire interface B. Two wire interfaces C. UART D. USART

18. Which of the following protocols does not exist at the data link layer?

A. ZigBee Smart Energy B. LoRaWAN C. WirelessHART D. Secure MQTT



19. Which of the following languages does GSN work on?

A. Python B. JAVA C. Android D. C++

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20. When was the actual term "Internet of Things" coined?

A. 1998
B. 1999
C. 2000
D. 2002

21. Which of the following is not an IoT platform?

A. Amazon Web Services
B. Microsoft Azure
C. Salesforce
D. Flipkart

22. Which of the following option allows us to monitor the application?

A. Boot B. Endpoints C. Actuators D. Hypermedia

23. The core element is operated by

A. IaaS B. PaaS C. SaaS D. IoT service Provider

24. What information is conveyed by the SSID that is configured on an IoT device?

- A. the registration server
- B. the wireless network
- C. the home gateway
- D. the default gateway

25. Which command is used to test network connectivity and provide a response to each packet received by the remote host?

- A. ping
- B. tracert
- C. connect
- D. text


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6 days Certification Course on "IOT Blended with Blockchain Technology"
Solutions for the Questions

Duration:1hr

Maximum marks :25

1. Which of the following industry can use blockchain technology for cybersecurity?

A.Logistics B. Healthcare C. Critical infrastructure D. All of the Above

ANSWER: All of the Above

2. What are the pillars of blockchain technology?

A.Decentralization B. Immutability C. Transparency D. All the Above

Answer: All the Above.

3.A Blockchain carries no transaction cost.

A. True B. FALSE

ANSWER: True

4.What is the full form of P2P in blockchain?

A.Peer to Peer B. Public to private C. Product to Product D. None of above

Answer.Peer to Peer

5. Blockchain is a type of _____

A. View B. Table C. Object D. Database

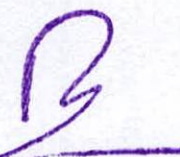
Answer: Database.

6. Are Decentralized blockchains immutable?

A.True B. False.

Answer: True

7. The blockchain was invented by in 2008.


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A. Alon Musk B. Bill Gates C. Satoshi Nakamoto D. None of above.

8. What does a ledger in blockchain does?

A. Mapping between owner and object B. Identification of objects owned

C. Identification of owners.

Answer: Mapping between owner and object

9. What is the term for when a blockchain splits?

A. A fork B. A merger C. A division D. None of above

Answer: Fork.

10. A hybrid blockchain has a combination of features.

A. Centralized B. Decentralized C. Both Centralized & Decentralized

D. None of above.

Answer: Both Centralized & Decentralized

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A. Miner is type of blockchain

B. Miner is a person doing calculations to verify a transaction

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and process blockchain transactions.

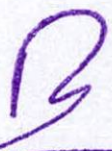
12. Which of the following is the way in which an IoT device is associated with data?

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Answer: Cloud

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A. Short Network B. LPWAN C. SigFox D. Short-range Wireless Network


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Answer: Short-range Wireless Network

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Answer: Interconnected.

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A. Improve the usability & Interoperability B. Reduce the security.

C. Complex the development D. Increase the cost

Answer: Improve the usability & Interoperability

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A. Android API B. RETful API C. MQTT API D. CoAP API

Answer: RETful API

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A. Signal wire interface B. Two wire interfaces C. UART D. USART

Answer: Two wire interfaces

18. Which of the following protocols does not exist at the data link layer?

A. ZigBee Smart Energy B. LoRaWAN C. WirelessHART D. Secure MQTT

Answer: Secure MQTT

19. Which of the following languages does GSN work on?

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Answer: JAVA

20. When was the actual term "Internet of Things" coined?
A. 1998

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- B.1999
- C.2000
- D. 2002

Answer: 1999

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- B. Microsoft Azure
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- D. Flipkart

Answer: Flipkart

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- B. Endpoints
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Answer: Boot

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Approved by Academic Committee Members & Resource Person

Sl No.	Faculty Name	Designation	Signature
1	Dr. H. R Ranganatha	HOD	
2	Dr. Asha P N	Associate Professor	
3	Prof. Prerana Chaithra	Associate Professor	
4	Prof. Sudarsanan D	Assistant Professor	
5	Prof. Gayathri R	Assistant Professor	
6	Prof. Basavaraj	Resource Person	

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Dr H.R Ranganatha
Prof. & H.O.D
Dept.of Information Science & Engg.
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6 days Certification Course on "IOT Blended with Blockchain Technology"

Participant Feedback

1. How was the overall organization of the Certification Course ?
a) Poor b) Satisfactory c) Good d) Excellent
2. How appropriate were the facilities provided ?
a) Poor b) Satisfactory c) Good d) Excellent
3. Opportunity to ask questions for clarification and interaction with presenters
a) Poor b) Satisfactory c) Good d) Excellent
4. Effectiveness of the Hands-on Sessions
a) Poor b) Satisfactory c) Good d) Excellent
5. Topic and contents of the Certification Course
a) Poor b) Satisfactory c) Good d) Excellent
6. How do you rate the Certification Course compared to other workshops that you have attended ?
a) Poor b) Satisfactory c) Good d) Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) Good d) Excellent
8. Any Suggestions:

Student Name:


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Student Signature:

6 days Certification Course on "IOT Blended with Blockchain Technology"

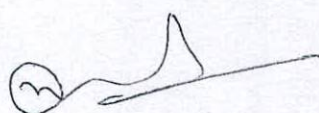
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7. Generally how was your overall experience during the Certification Course
 a) Poor b) Satisfactory c) Good ☒ d) Excellent
8. Any Suggestions:

It was very much helpful and overall
great experience.

Student Name: Naisangi Dave


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Student Signature:

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7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) Good ☒ d) Excellent
8. Any Suggestions:

More such events will be helpful

Bharan.N
Student Name:


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Sapthagiri College of Engineering
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150 Bharan.N
Student Signature:



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a) Poor b) Satisfactory c) Good ☒ d) Excellent
7. Generally how was your overall experience during the Certification Course
a) Poor b) Satisfactory c) Good ☒ d) Excellent
8. Any Suggestions:

This session was very useful so we need
more such sessions

Student Name: Kapila Rajeshwari.S

Student Signature:

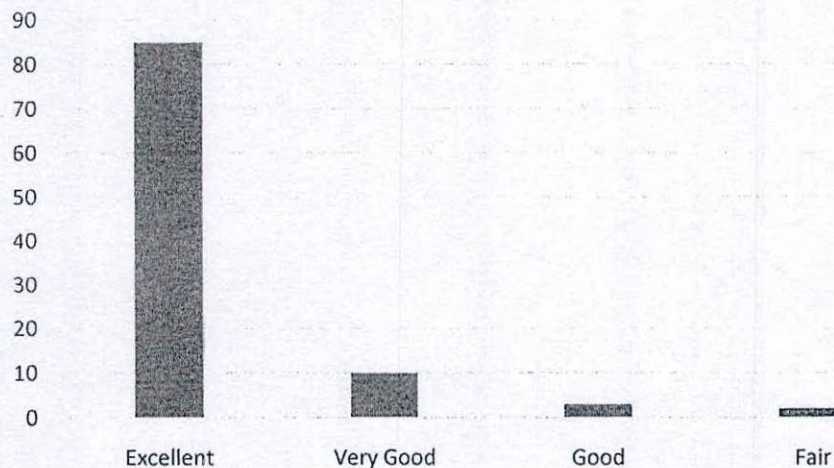

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FEEDBACK ANALYSIS

Certification Programme: "IOT Blended with Blockchain Technology"

No. of students participated	Student Feedback			
	Excellent	Very Good	Good	Fair
92	85	10	3	2

Feedback Report Analysis




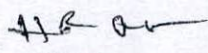
Action Report:

85 % of students were completely happy with the certification program and 10 % of students felt it was a good program and remaining 5 % students were satisfied with the program.

Action Taken:

The Feedback report which was collected from the students were sent to the principal and he would take necessary actions based on the comments and conduct more programs for the benefit of students.


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Certification Course Report

Department of ISE conducted Certification Course on "IOT Blended with Blockchain Technology" **Guest Speaker:** Prof. Basavaraj, Assistant professor Department of ISE, Sambhram Institute of technology, Bengaluru.

Duration of the course: Six days from 23-Sept-2021 to 29-Sept-2021

Course detail

Objective of the Course: The six days course made the students to be familiar with the major concepts in automation using python which is a main platform for their career. Certification Course became the vital step to improve the knowledge of students

Certification course made them comfortable with the IOT and Blockchain concepts. Learning style adopted by students, which eventually is developed into a skill of their forte. Through this course, an ecstatic learning background paved way to a positive learning environment in the class where active participation was seen from every end. Speaker took the onus of interacting with the students personally to navigate them for the academic transition by becoming the guides by their side.

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Schedule of Certification Course

Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm)	Name of Faculty Session Handling
23-09-2021	<ul style="list-style-type: none"> Introduction to the Internet of Things Introduction to Raspberry Pi 	<ul style="list-style-type: none"> Introduction to Blockchain Introduction to Hyperledger 	<ul style="list-style-type: none"> Hands on Session Distributed Ledger Technology Scalability in of Blockchain 	S1: Prof. Basavaraju S2: Prof. Priyanka R S3: Prof. Basavaraju
24-09-2021	<ul style="list-style-type: none"> IoT Architecture Recent protocols in IoT (6LoWPAN, RPL, MQTT, Zigbee) 	<ul style="list-style-type: none"> Ways to strengthen iot security with blockchain technology Components of Blockchain 	<ul style="list-style-type: none"> Hands on Session Building the First Network Configuration 	S1: Prof. Gayathri R S2: Prof. Chaithanaya V S3: Prof. Basavaraju
25-09-2021	<ul style="list-style-type: none"> Sending IoT Data to Blockchain Extending the App to send multiple data 	<ul style="list-style-type: none"> IOT Paradigms Blockchain v/s Bitcoin 	<ul style="list-style-type: none"> Build trust in your IoT data Customer centric 	S1: Prof. Ramya R S2: Prof. Roopa K T S3:

(Signature)
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Dates	SESSION 1 (9.00am-10.30am) Detailed Contents	SESSION 2 (11.00am-12.30pm) Detailed Contents	SESSION 3 (LAB SESSION) (1.30pm-4.30pm) Detailed Contents	Name of Faculty Session Handling
27-09-2021	<ul style="list-style-type: none">Extending the App to send multiple dataReal-world solutions	<ul style="list-style-type: none">Roadmap of Blockchain & IoT<ul style="list-style-type: none">Industrial IoT requirements	<ul style="list-style-type: none">Hands on IOT –Networking Config to Cloud Data and data sets.	S1: S2: S3: Dr. Asha P N Prof.Sowmya Somanth
28-09-2021	<ul style="list-style-type: none">Cloud-centric Internet of ThingsData pre-processing and analysis	<ul style="list-style-type: none">Building the First Network ConfigurationM2M to IoT	<ul style="list-style-type: none">Potential IoT applications like Smart health, Smart home, etc.Practical demonstration using Thing speak	S1: S2: S3: Prof.Prerana Chaithra Prof. Chaithra B M
29-09-2021	<ul style="list-style-type: none">Security and privacy issues in IoTEnergy harvesting for IoT applicationsResearch challenges in IoT	<ul style="list-style-type: none">Building First Hyper ledger App and Interactive Session with students		S1: S2: S2/3: Prof. Sudarsanan D Prof. Divya B S

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Conclusion: The optimistic learning environment prompted motivation in the learning of the students. They felt bonhomie after the course they took. A sense of satisfaction was also seen. Faculty members were also equally benefited with the course. A structured environment was created. This helped in the smooth flow of academic lesson plan by adhering to the timelines. This Course helped the student to improve their knowledge in IOT & Blockchain.

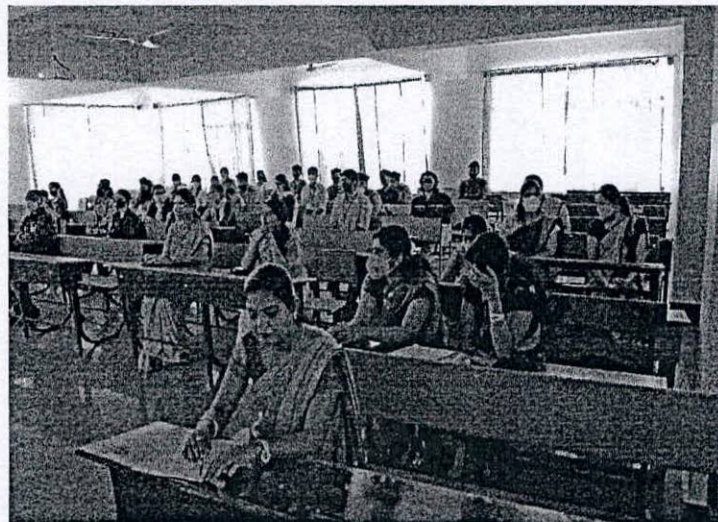
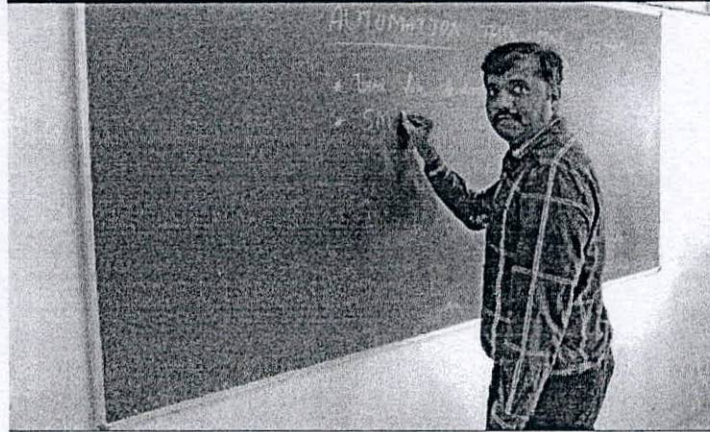
Glimpse of Certification Course-2021-22




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6 days Certification course on "IOT Blended with Blockchain Technology" by Prof. Basavaraj, Assistant professor Department of ISE, Sambhram Institute of technology, Bengaluru from 23-Sept-2021 to 29-Sept-2021.

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HOD

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Department of Information Science and Engineering
CERTIFICATION COURSE



CERTIFICATE OF PARTICIPATION

Mr./Ms. _____ has actively Participated in Certification Course
“IOT Blended with block chain Technology” during 23/09/2021 to 29/09/2021
organized by the Department of Information Science

Dr. H.R. Ranganatha
HOD & Convener, ISE Dept.


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Bengaluru - 560 057

Dr. H. Ramakrishna
Principal

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✓
Mr./Ms. SAHANA N. has actively Participated in Certification Course
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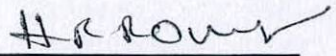
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Mr./Ms. GAGAN B. G. has actively Participated in Certification Course
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Mr./Ms. ✓ ANJALI has actively Participated in Certification Course
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✓
Mr./Ms. BALAJI U. has actively Participated in Certification Course
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Mr./Ms. DEVIKA R has actively Participated in Certification Course
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