



**Amrutvahini College of Engineering,
- Sangamner -**

Department of Electronics Engineering

- Organizes -

Workshop

on

“Internet of Things”

During 23th Sept. 2019 to 27th Sept. 2019

- Targeted Audience -

TE Electronics Students

• Resource Person •

Prof. V. S. Ubale

Asst. Professor, AVCOE, Sangamner

Prof. S. B. Dighe

Asst. Professor, AVCOE, Sangamner

Session Objectives:

- Understand the definition and significance of the Internet of Things
- Discuss the architecture, operation, and business benefits of an IoT solution
- Examine the potential business opportunities that IoT can uncover
- Explore the relationship between IoT, cloud computing, and big data
- Identify how IoT differs from traditional data collection systems

Session Outcomes:

On successful completion of this course, student will be able to:

1. Understand the application areas of IoT ·
2. Realize the revolution of Internet in Mobile Devices, Cloud & Sensor Networks ·
3. Understand building blocks of Internet of Things and characteristics.
4. Explored to the interconnection and integration of the physical world and the cyber space.
5. To design & develop some IoT based prototypes.

Prof. S. S. Gundal
Head of Department

Dr. G. J. Vikhe Patil
Principal

Date: 04/10/2019

To,

The Principal,
AVCOE, Sangamner

Subject: Report of "Workshop on Internet of Things"

Respected Sir,

Electronics Department conducted One Week Workshop on "Internet of Things" for Third Year students of Electronics Engineering during 23rd to 27th September 2019. It is organized by Electronics Department along with T&P Cell. We are herewith submitting the report for the same.

Name of Resource Person : Er. Vilas S. Ubale
Er. Sujata B. Dighe
Faculty, Electronics Engineering Dept.

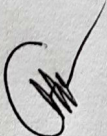
Subject : Internet of Things.

Targeted students : TE students of Electronics Engineering.

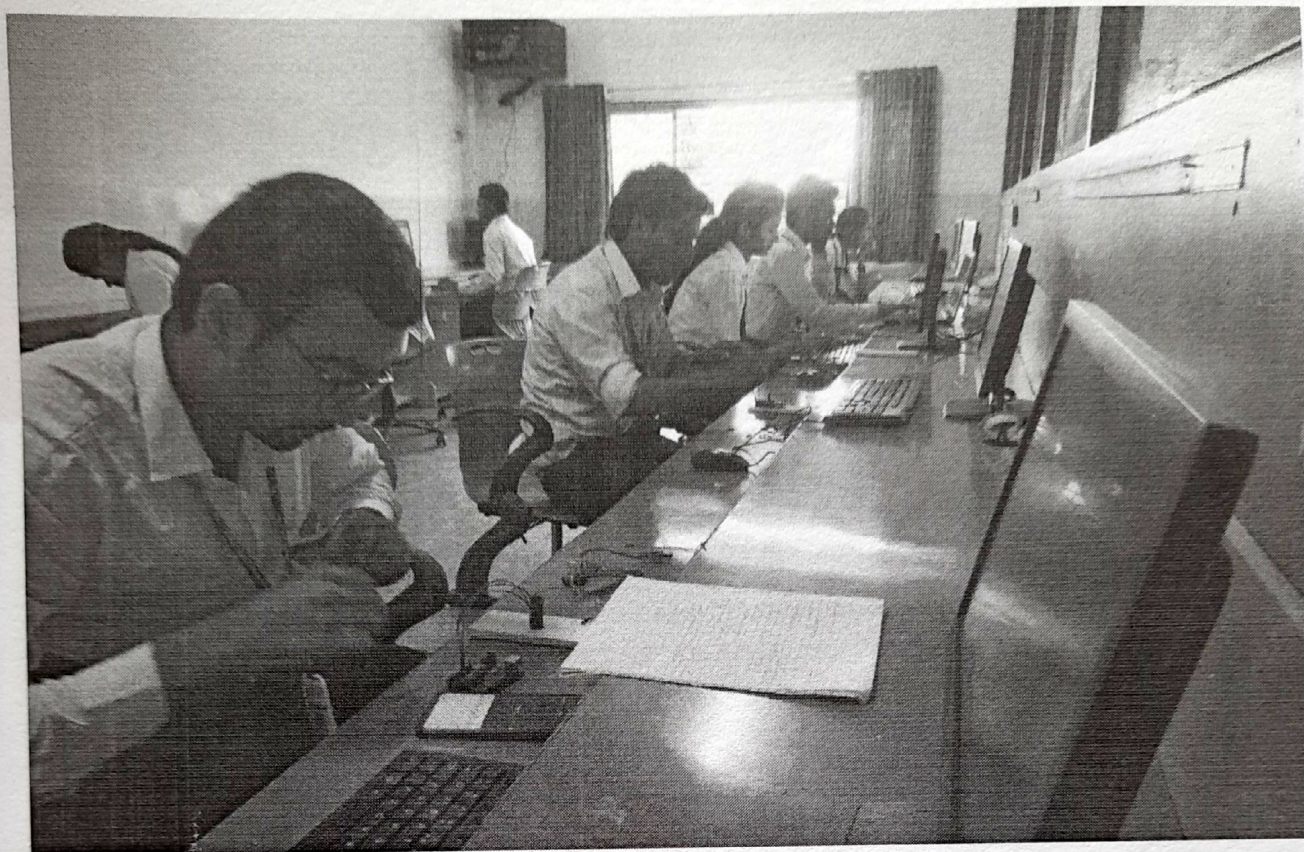
Number of Students : 53

This is for your kind information

Thanking you


(Mrs. S. S. Gundal)
Head of Department

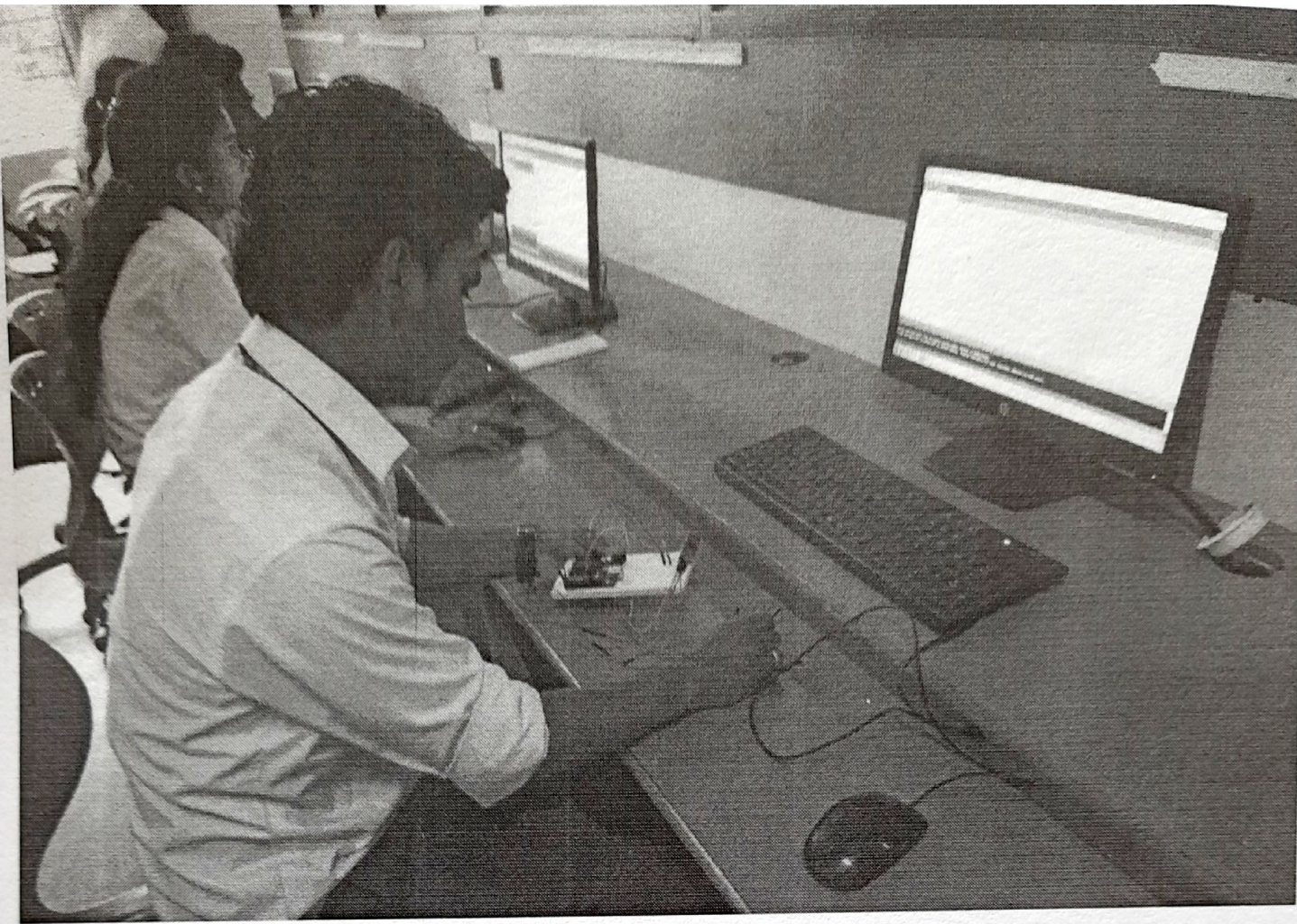
Workshop on “Internet of Things” by Vilas S. Ubale and Sujata B. Dighe Faculty,
Electronics Engineering Dept. AVCOE, Sangamner during 23rd to 27th September 2019.



Practical Session of Internet of things by Prof.Ubale V.S. & Prof .Dighe S.B.



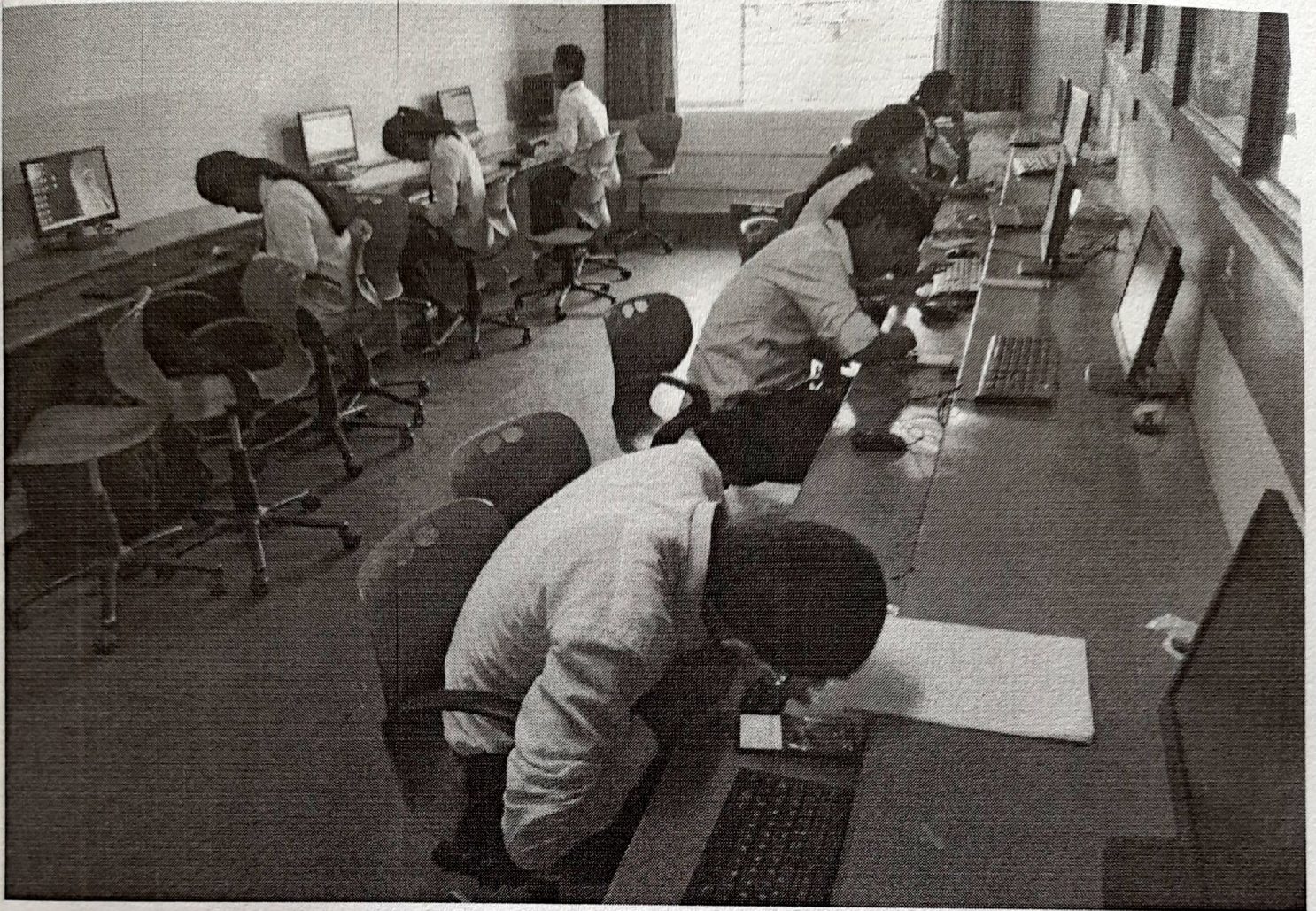
Practical Session of Internet of things by Prof.Ubale V.S. & Prof .Dighe S.B.



Practical Session of Internet of things by Prof.Ubale V.S. & Prof .Dighe S.B.



Practical Session of Internet of things by Prof.Ubale V.S. & Prof .Dighe S.B.



Prof.Ubale V.S.Addressing the students on Internet of Things

(Handwritten signature)

Amrutvahini College of Engineering, Sangamner
Deptment of Electronics Engineering
Evaluation Sheet of IOT Workshop Test 2019-20

ERPNO	RollNO	StudentName	SMobile	Sex	Given Task	Completed /not Completed	Date	Sign	Remark
3506	3101	ABHANG DEEPIKA VISHNU	9552061233	Female	Interfacing of LED (LED Blinking) with arduino (on board LED)	completed	4/10/19	<i>[Signature]</i>	
10928	3102	AMBRE RUTUJA SHIVAJI	9767000337	Female	Interfacing of LED (LED Blinking) with arduino (External LED)	completed	4/10/19	<i>[Signature]</i>	
8045	3103	ANDHALI SANTOSH DATTU	8888501935	Male	LM35 for Temperature measurment using Arduino	7D	—	—	
10749	3104	BHABAD DISHA SANDEEP	8779721417	Female	DHT11 for Temperature and Humidity measurement using Arduino	completed	4/10/19	<i>[Signature]</i>	
8912	3106	BHANGRE GAYATRI PRAVIN	7066162093	Female	Obstacle detection using IR sensor and Arduino	Completed	5/10/19	<i>[Signature]</i>	
10655	3108	BOMBLE KALYANI GOVIND	9552663728	Female	Interfacing of touch sensor with arduino	completed	4/10/19	<i>[Signature]</i>	
9295	3110	CHUTE HINA SUNIL	8551887456	Female	LDR interfacing with arduino for detection of light intensity	completed	4/10/19	<i>[Signature]</i>	
9330	3111	DARADE TEJAL NAMDEV	7057008311	Female	Interfacing of Bluetooth module with arduino	Completed	5/10/19	<i>[Signature]</i>	
10733	3112	DESHMUKH BHAKTI PRASHANTRAO	9011763960	Female	Interfacing of DC motor with arduino	completed	4/10/19	<i>[Signature]</i>	
7959	3114	DONGARE AVINASH RAMDAS	9922889503	Male	Interfacing of Wi-Fi module with Arduino	Completed	5/10/19	<i>[Signature]</i>	
10794	3115	DUBE PUJA DNYANESHWAR	9923619545	Female	Interfacing of LED (LED Blinking) with arduino (on board LED)	completed	4/10/19	<i>[Signature]</i>	
10841	3116	FULSUNDAR SWIKRUTI JAYRAM	9767723479	Female	Interfacing of LED (LED Blinking) with arduino (External LED)	completed	4/10/19	<i>[Signature]</i>	
9344	3117	GAVANDI SHIVANI RAVIKRAN	9975788181	Female	LM35 for Temperature measurment using Arduino	Completed	5/10/19	<i>[Signature]</i>	
6656	3119	GOPALE SHUBHAM ANNASAHEB	8421365662	Male	DHT11 for Temperature and Humidity measurement using Arduino	completed	5/10/19	<i>[Signature]</i>	
10620	3120	HIRVE OMKAR RAJENDRA	9561688276	Male	Obstacle detection using IR sensor and Arduino	Completed	5/10/19	<i>[Signature]</i>	
8023	3121	JADHAV ROHAN SANJAY	9860153306	Male	Interfacing of touch sensor with arduino	Completed	4/10/19	<i>[Signature]</i>	
8197	3122	JAGNAR DNYANDEV BAJIRAV	9146239511	Male	LDR interfacing with arduino for detection of light intensity	7D	—	—	
9025	3123	JAGTAP GAURAV KAILAS	8600832558	Male	Interfacing of Bluetooth module with arduino	completed	4/10/19	<i>[Signature]</i>	
6794	3124	KAKAD AKSHADA SOPAN	9130288956	Female	Interfacing of DC motor with arduino	completed	4/10/19	<i>[Signature]</i>	
10804	3125	KANDEKAR SHEETAL SOMNATH	9011440132	Female	Interfacing of Wi-Fi module with Arduino Bluetooth	Completed	4/10/19	<i>[Signature]</i>	
10944	3126	KARDILE SONALI BALASAHEB	7887829063	Female	Interfacing of LED (LED Blinking) with arduino (on board LED)	Completed	4/11/19	<i>[Signature]</i>	
8996	3127	KAWADE RAHUL BHIVSEN	9284094001	Male	Interfacing of LED (LED Blinking) with arduino (External LED)	Completed	4/10/19	<i>[Signature]</i>	
6842	3128	KAWADE SHUBHAM RAJENDRA	8796768143	Male	LM35 for Temperature measurment using Arduino	Completed	5/10/19	<i>[Signature]</i>	
6697	3129	KAWADE SUSHMA KISAN	9503958528	Female	DHT11 for Temperature and Humidity measurment using Arduino	Completed	5/10/19	<i>[Signature]</i>	
7865	3130	KEDAR SAURABH LAHANU	9511970553	Male	Obstacle detection using IR sensor and Arduino	Completed	5/10/19	<i>[Signature]</i>	
7789	3131	KHATODE ANIKET SHARAD	7083922239	Male	Interfacing of touch sensor with arduino	Completed	4/10/19	<i>[Signature]</i>	
10927	3133	KHATODE PRAJUKTA MARUTI	9657253816	Female	LDR interfacing with arduino for detection of light intensity	Completed	4/10/19	<i>[Signature]</i>	
9181	3135	MAHALE SAGAR SUNIL	9096316334	Male	Interfacing of Bluetooth module with arduino	Completed	4/10/19	<i>[Signature]</i>	
9086	3136	MALI RAHUL MADHAV	7720918218	Male	Interfacing of DC motor with arduino	Completed	5/10/19	<i>[Signature]</i>	
						completed	4/10/19	<i>[Signature]</i>	

10618	3137	MALUNIKAR SHIVPRASAD RAJENDRA	8975559545	Male	Interfacing of Wi-Fi module with Arduino	Completed	5/10/19	Shivaji	
10732	3138	MANDLIK ROSHANA SATISH	9112352131	Female	Interfacing of LED (LED Blinking) with arduino (on board LED)	Completed	4/10/19	Roshana	
8974	3140	NAIKWADI NEHA VIJAY	7020023473	Female	Interfacing of LED (LED Blinking) with arduino (External LED)	Completed	5/10/19	Neha	
9357	3141	NAVALE MITAL VILAS	7378330668	Female	LM35 for Temperature measurement using Arduino	Completed	4/10/19	Mital	
10865	3142	NAWALE ASHUTOSH DATTATRYA	7378988326	Male	DHT11 for Temperature and Humidity measurement using Arduino	Completed	4/10/19	Ashutosh	
9569	3143	NEHE SURAJ JALINDAR	8855028354	Male	Obstacle detection using IR sensor and Arduino	Completed	5/10/19	Nehe	
10963	3144	PARHAD GOKUL GITARAM	9545822632	Male	Interfacing of touch sensor with arduino	Completed	04/10/19	Gokul	Good P. ✓
10857	3145	PATEL SHABINA MANSUR	7796529604	Female	LDR interfacing with arduino for detection of light intensity	Completed	4/10/19	Shabina	
9184	3146	PAWAR AJAY NAVNATH	9552862278	Male	Interfacing of Bluetooth module with arduino	Completed	04/10/19	Ajay	
9355	3147	PHAPALE SUJATA ARUN	9284831283	Female	Interfacing of DC motor with arduino	Completed	04/10/19	Sujata	
10839	3148	RANDHIR HARISHCHANDRA KARBHARI	7743921196	Male	Interfacing of Wi-Fi module with Arduino Bluetooth	Completed	4/10/19	Randhir	
9263	3151	SANAP SUMIT KHANDERAU	9881839104	Male	Interfacing of LED (LED Blinking) with arduino (on board LED)	Completed	4/10/19	Sanap	
10750	3152	SANGALE SUNITA NAVNATH	7218135968	Female	Interfacing of LED (LED Blinking) with arduino (External LED)	Completed	4/10/19	Sunita	
10859	3153	SAWANT SHITAL RAMESH	9423454199	Female	LM35 for Temperature measurement using Arduino	Completed	4/10/19	Shital	
7919	3154	SHAIKH MOIN NISAR	7776969781	Male	DHT11 for Temperature and Humidity measurement using Arduino	Completed	4/10/19	Moin	
9298	3155	SHETE KOMAL BABASAHEB	9112783665	Female	Obstacle detection using IR sensor and Arduino	Completed	4/10/19	Komal	
6680	3158	SHINDE SHILPA TAYAGA	7745093306	Female	Interfacing of touch sensor with arduino LED	Completed	4/10/19	Shinde	
6817	3159	SUPE ACHYUT MANOHAR	9860932904	Male	LDR interfacing with arduino for detection of light intensity	Completed	5/10/19	Supe	
8208	3160	THITAME SANKET MACHINDRA	8606282185	Male	Interfacing of Bluetooth module with arduino	Completed	5/10/19	Sanket	
10663	3162	ZAGADE ARVIND RANGNATH	9673050467	Male	Interfacing of DC motor with arduino	Completed	5/10/19	Arvind	
9087	3163	BODHADE PAPPU SHANKAR	9075925451	Male	Interfacing of Wi-Fi module with Arduino	Completed	5/10/19	Pappu	
8057	3166	KANDEKAR ROHIT VILAS	8530012733	Male	Interfacing of LED (LED Blinking) with arduino (on board LED)	Completed	5/10/19	Rohit	
10962	3167	GORDE NIKITA SURESH	7083303550	Female	Interfacing of LED (LED Blinking) with arduino (External LED)	Completed	4/10/19	Nikita	
6872	3168	JAYBHAYE VILAS BABAN	9657027424	Male	LM35 for Temperature measurement using Arduino	Completed	5/10/19	Vilas	

Group

N.S. Ubate

S.B. Dighe

S.S. Gundal
H.O.D.

AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department of Electronics Engineering IOT Workshop

During : - 23/09/2019 to 27/09/2019

TE Electronics Engineering								Remark
RollNO	StudentName	SMobile	23-09-2019	24-09-2019	24-09-2019	25-09-2019	27-09-2019	
			Monday	Tuesday	Tuesday	Wednesday	Friday	
			Time → 2 to 4 pm	11 to 1pm	2 to 4pm	2 to 4 pm	2 to 4pm	
3101	ABHANG DEEPIKA VISHNU	9552061233	D.V. Abhang	D.V. Abhang	D.V. Abhang	D.V. Abhang	D.V. Abhang	
3102	AMBRE RUTUJA SHIVAJI	9767000337	R.D. Ambre	R.D. Ambre	R.D. Ambre	R.D. Ambre	R.D. Ambre	
3103	ANDHALE SANTOSH DATTU	8888501935	AndhalesD	AndhalesD	AndhalesD	AndhalesD	AndhalesD	
3104	BHABAD DISHA SANDEEP	8779721417	Disha	Disha	Disha	Disha	Disha	
3106	BHANGRE GAYATRI PRAVIN	7066162093	Bhangre	Bhangre	Bhangre	Bhangre	Bhangre	
3108	BOMBLE KALYANI GOVIND.	9552663728	Bli	Bli	Bli	Bli	Bli	
3110	CHUTE HINA SUNIL	8551887456	Chute	Chute	Chute	Chute	Chute	
3111	DARADE TEJAL NAMDEV	7057008311	TejalsD	TejalsD	TejalsD	TejalsD	TejalsD	
3112	DESHMUKH BHAKTI PRASHANT	9011763960	Bhakti	Bhakti	Bhakti	Bhakti	Bhakti	
3114	DONGARE AVINASH RAMDAS	9922889503	Avy	Avy	Avy	Avy	Avy	
3115	DUBE PUJA DNYANESHWAR	9923619545	Dube	Dube	Dube	Dube	Dube	
3116	FULSUNDAR SWIKRUTI JAYRAM	9767723479	Swikruti	Swikruti	Swikruti	Swikruti	Swikruti	
3117	GAVANDI SHIVANI RAVIKIRAN	9975788181	Shivani	Shivani	Shivani	Shivani	Shivani	
3119	GOPALE SHUBHAM ANNASAHEB	8421365662	Shropak	Shropak	Shropak	Shropak	Shropak	
3120	HARVE OMKAR RAJENDRA	9561688276	Harve	Harve	Harve	Harve	Harve	
3121	JADHAV ROHAN SANJAY	9860153306	Rohas	Rohas	Rohas	Rohas	Rohas	
3122	JAGNAR DNYANDEV BAJIRAV	9146239511	Jagnar	Jagnar	Jagnar	Jagnar	Jagnar	
3123	JAGTAP GAURAV KAILAS	8600832558	Gaurav	Gaurav	Gaurav	Gaurav	Gaurav	
3124	KAKAD AKSHADA SOPAN	9130288956	Akakad	Akakad	Akakad	Akakad	Akakad	
3125	KANDEKAR SHEETAL SOMNATH	9011440132	Kandekar	Kandekar	Kandekar	Kandekar	Kandekar	
3126	KARDILE SONALI BALASAHEB	7887829063	Sonali	Sonali	Sonali	Sonali	Sonali	
3127	KAWADE RAHUL BHIVSEN	9284094001	Rahul	Rahul	Rahul	Rahul	Rahul	
3128	KAWADE SHUBHAM RAJENDRA	8796768143	Shubh	Shubh	Shubh	Shubh	Shubh	
3129	KAWADE SUSHMA KISAN	9503958528	Sushma	Sushma	Sushma	Sushma	Sushma	
3130	KEDAR SAURABH LAHANU	9511970553	Kedar	Kedar	Kedar	Kedar	Kedar	
3131	KHATODE ANIKET SHARAD	7083922239	Aniket	Aniket	Aniket	Aniket	Aniket	

			23/9/19	24/9/19	24/9/19	25/09/19	27/9/19	
3133	KHATODE PRAJTA MARUTI	9657253816	Reginald	Reginald	Reginald	AB	AB	
3135	MAHALE SAGAR SUNIL	9096316334	Sagar	Sagar	Sagar	AB	AB	
3136	MALI RAHUL MADHAV	7720918218	Rahul	Rahul	Rahul	AB	AB	
3137	MALUNJKAR SHIVPRASAD RAJEN	8975559545	Shivprasad	Shivprasad	Shivprasad	AB	AB	
3138	MANDLIK ROSHANA SATISH	9112352131	Roshana	Roshana	Roshana	AB	AB	
3140	NAIKWADI NEHA VIJAY	7020023473	Neha	Neha	Neha	AB	AB	
3141	NAVALE MITAL VILAS	9860945649	Mital	Mital	Mital	AB	AB	
3142	NAWALE ASHUTOSH DATTATRY	7378988326	Ashutosh	Ashutosh	Ashutosh	AB	AB	
3143	NEHE SURAJ JALINDAR	8855028354	Suraj	Suraj	Suraj	AB	AB	
3144	PARHAD GOKUL GITARAM	9545822632	Gokul	Gokul	Gokul	AB	AB	
3145	PATEL SHABINA MANSUR	7796529604	Shabina	Shabina	Shabina	AB	AB	
3146	PAWAR AJAY NAVNATH	9552862278	Ajay	Ajay	Ajay	AB	AB	
3147	PHAPALE SUJATA ARUN	9284831283	Sujata	Sujata	Sujata	AB	AB	
3148	RANDHIR HARISHCHANDRA KAF	7743921196	Randhir	Randhir	Randhir	AB	AB	
3151	SANAP SUMIT KHANDERAO	9884339104	Sumit	Sumit	Sumit	AB	AB	
3152	SANGALE SUNITA NAVNATH	7218135968	Sunita	Sunita	Sunita	AB	AB	
3153	SAWANT SHITAL RAMESH	9420314199	Shital	Shital	Shital	AB	AB	
3154	SHAIKH MOIN NISAR	7776969781	Moin	Moin	Moin	AB	AB	
3155	SHETE KOMAL BABASAHEB	9112783665	Komal	Komal	Komal	AB	AB	
3158	SHINDE SHILPA TAYAGA	7745093306	Shilpa	Shilpa	Shilpa	AB	AB	
3159	SUPE ACHYUT MANOHAR	9805218655	Achyt	Achyt	Achyt	AB	AB	
3160	THITAME SANKET MACHINDRA	9359400293	Sanket	Sanket	Sanket	AB	AB	
3162	ZAGADE ARVIND RANGNATH	9673050467	Arvind	Arvind	Arvind	AB	AB	
3163	BODHADE PAPPU SHANKAR	9075925451	Pappu	Pappu	Pappu	AB	AB	
3166	KANDEKAR ROHIT VILAS	8530012733	Rohit	Rohit	Rohit	AB	AB	
3167	GORDE NIKITA SURESH	9835439484	Nikita	Nikita	Nikita	AB	AB	
3168	JAYBHAYE VILAS BABAN	9667027424	Vilas	Vilas	Vilas	AB	AB	

Worksho Coordinator

Head of Department