

Brochure
Introduction to Embedded System and IoT
28th June 2021 to 3rd July 2021

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to register

Today's embedded systems development ranges from microprocessor-based control systems to system-on-chip (SoC) design, and device software development. A myriad of implementations can be found in consumer electronics, medical devices, commercial, military applications. Embedded Systems have a very wide application in different domains. This course will help the students to improve the technical skills and give them a better understanding of an Embedded system and Internet of Things.

About Instructors:-

This course will be taught by a team of Embedded system and IoT from ,talk by Mr . Abhay Phansikar , Director of Azilen Technologies , Chairman of IEEE for Bombay Section ,Prof. Vaishali Mangrulkar , SIES GST, Prof. Kintu Patel ,SIESGST and Prof. Pratibha Joshi, SIES GST.

Course Objectives:-

To develop background knowledge Embedded Systems.
To understand designing of embedded systems.
To understand use of wireless sensors/communications with Embedded systems
To understand communication techniques.
To write programs for embedded systems and real time operating systems /IoT

Course Outcomes:

- Understand the embedded Systems with its design metrics.
- Understand various microprocessor/microcontroller based boards with suitable programming language.
- Implement the embedded system with different sensors and peripherals as IoT.
- Implement Embedded systems with different communication protocols as IoT.
- Analyze concepts of Real time operating systems.
- Design embedded systems applications using sensors, peripherals and RTOS.

- **Content:**

Module	Contents	Hours
1.	Introduction to Embedded System Definition of Embedded System, Embedded Systems Vs General Computing Systems, Classification, Major Application Areas. Characteristics and quality attributes (Design Metric) of embedded system. Real time system's requirements, real time issues, interrupt latency. Embedded Product development life cycle.	4 hrs
2.	Microprocessor and Microcontroller Boards ARM LPC 21XX (2148), Texas MSP 430 lunchbox STM32 boards /PSoC, Intel Galileo.	4 hrs
3.	Sensor Interfacing GLCD, Relays and Motors with motor drivers. BLDC motors and drivers, USB/HDMI camera interfacing	4 hrs
4.	Communication Protocols CAN bus, I2C, MOD bus, SPI, wifi, ZigBee, Bluetooth and putting data on IoT GPS module interfacing, GPS module interfacing	4hrs
5.	Introduction to RTOS Operating system basics, Types of OS, Tasks, process, Threads Multiprocessing and Multitasking, Task scheduling, RTLinux/Implementation with RTOS	4 hrs
6	Introduction to cloud and IoT Implementation on web server, thingspeak, AWS cloud platform for IOT based programming and modelling Expert Talk	2 hrs

Assessment:

1. Students will be assessed based on module wise assignments and quizzes.
2. In this value-added course students will develop Mini projects/Case study based on above concepts.

Course Co-ordinator: Prof. Kintu Patel

E-mail ID:- kintup@sies.edu.in

Contact No:7738383680

Day wise schedule of workshop

Day	Activity
Day 1 15/6/2020	<p>Introduction to Embedded System by an Expert</p> <p>Quiz</p>
Day 2 16/6/2020	<p>Microprocessor and Microcontroller Boards ARM LPC 21XX (2148), Texas MSP 430 lunchbox STM32 boards /PSoC, Intel Galileo.</p> <p>Quiz</p>
Day 3 17/6/2020	<p>Sensor Interfacing</p> <p>GLCD, Relays and Motors with motor drivers. BLDC motors and drivers, USB/HDMI camera interfacing</p> <p>Quiz</p>
Day 4 18/6/2020	<p>Communication Protocols CAN bus, I2C, MOD bus, SPI, wifi, ZigBee, Bluetooth and putting data on IoT GPS module interfacing, GPS module interfacing</p> <p>Quiz</p>
Day 5 19/6/2020	<p>Introduction to cloud and IoT Implementation on web server, thingspeak, AWS cloud platform for IOT based programming and modelling Expert Talk</p> <p>Quiz</p>
Day 6 22/6/2020	<p>Introduction to RTOS Operating system basics, Types of OS, Tasks, process, Threads Multiprocessing and Multitasking, Task scheduling, RTLinux/Implementation with RTOS</p> <p>Quiz</p>



SIES Graduate School of Technology
Sri Chandrasekarendra Saraswati Vidyapuram
Sector 5, Nerul, Navimumbai-400706

Department of Electronics and Telecommunication Engineering
Event Report

Introduction to Embedded System and IoT (28/6/2021 to 3/7/2021)

Event Information

Event Type: Student Development Program

Event title: Introduction to Embedded System and IoT

Resource Person: Prof. Kintu Patel , Prof. Vaishali Mangrulkar and Prof. Pratibha Joshi.

Expert talk by Mr. Hannan Satopay ,IEEE Bombay Section TPAC Secretary and by
Mr.Abhay Phansikar , past chairman of IEEE Bombay Section.

Event date: 28/6/2021 to 3/7/2021

Organized for: Students

Organized by: Department of Electronics and Telecommunication

Target audience (branch & nos.): SE/TE/BE(All branches)

Attachments: 1. Photographs (in JPEG/PNG)

2. Attendance report

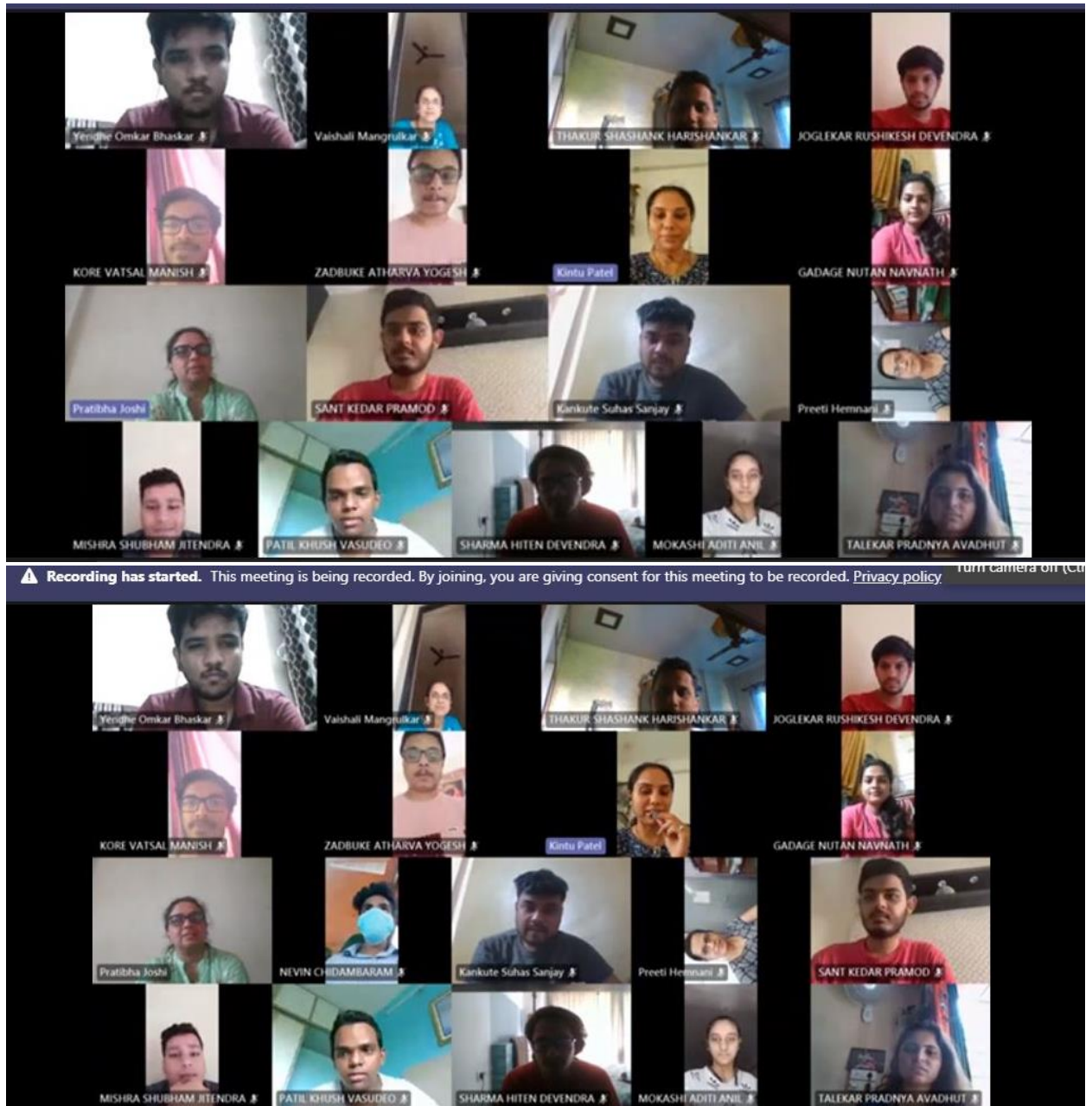
3. Feedback

4. Certificate

Event Description

SDP on Embedded system and IoT was started with session by expert Mr. Hannan Satopay. During these six days of program students were introduced about different microcontrollers , sensor interfacing , RTOS , communication protocols and IoT. An expert session on different application areas of embedded system and IoT was taken by Mr.Abhay Phansikar. After completion of program, students submitted the case studies as summary of concepts taught.

1. Photographs (in JPEG/PNG)



Responses

ID	Start time	Completion time	Name	Roll Number	Year	Division	Email ID (SIES GST Domain)	Mobile Number
1	6-19-21	6-19-21	YADAV KANNAN	219A6	BE	A	yadavvenkatesh219@siesgst.ac.in	9167256
	8:47:08	8:47:36		071				544
2	6-19-21	6-19-21	Mrunmayee	120A1	FE	C	mrunmayeekce120@gst.sies.edu.in	7021515
	9:54:29	9:55:16	Kulkarni	059				191
3	6-19-21	6-19-21	Samiksha	120A1	FE	C	samikshaice120@gst.sies.edu.in	9969135
	10:03:57	10:04:28	Iyengar	093				945
4	6-19-21	6-19-21	Dhanshree	220A2	SE	A	dhanshreetextc220@gst.sies.edu.in	9082806
	10:05:02	10:05:54	Tekale	127				310
5	6-19-21	6-19-21	Arshiya Wagle	220A2	SE	A	arshiyawextc220@gst.sies.edu.in	9511839
	10:01:40	10:06:16		130				987
6	6-19-21	6-19-21	VIVEK PIMPLE	219A2	TE	B	pimplevivek219@siesgst.ac.in	9324238
	10:06:31	10:07:19		132				313
7	6-19-21	6-19-21	NUTAN GADGE	219A2	BE	B	gadagenutan219@siesgst.ac.in	9967196
	10:12:42	10:13:22		123				911
8	6-19-21	6-19-21	ASWIN NAIR	119A2	SE	A	aswinnextc119@gst.sies.edu.in	9619940
	10:14:21	10:16:30		046				047
9	6-19-21	6-19-21	RAMESH	119A3	TE	E	rameshyit119@gst.sies.edu.in	9967303
	10:16:23	10:17:05	YADAVAR	060				122
10	6-19-21	6-19-21	ANURAG NALA	119A2	SE	A	nalaanurag19@siesgst.ac.in	9503322
	10:17:51	10:18:23		048				134
11	6-19-21	6-19-21	SIDDHARTH JAIN	118A2	TE	A	siddharthjextc118@gst.sies.edu.in	7021369
	10:17:09	10:19:25		040				257
12	6-19-21	6-19-21	PRATHAMESH	219A2	TE	A	gawandprathamesh219@siesgst.ac.in	8108082
	10:19:17	10:20:02	GAWAND	124				298
13	6-19-21	6-19-21	VYOM PANDEY	119A2	SE	A	vyompextc119@gst.sies.edu.in	7021211
	10:19:16	10:20:57		052				178
14	6-19-21	6-19-21	SANGITA	118A2	TE	A	gowda.sangita18@siesgst.ac.in	7710996
	10:22:04	10:22:29	GOWDA	033				856
15	6-19-21	6-19-21	SAI SRI SRAVYA	119A2	SE	B	sraavyasextc119@gst.sies.edu.in	9987576
	10:03:55	10:26:37	SISTLA	066				916
16	6-19-21	6-19-21	SARVESH	119A6	SE	F	sarveshvme119@gst.sies.edu.in	8108803
	10:20:26	10:29:30	VICHARE	056				333
17	6-19-21	6-19-21	PRIYANSHU	119A2	TE	A	priyanshuextc119@gst.sies.edu.in	9136106
	10:34:33	10:35:58	CHOUDHARY	058				613
18	6-19-21	6-19-21	RUSHIKESH	118A2	TE	A	rushikeshjextc118@gst.sies.edu.in	9833977
	10:37:39	10:39:36	JOGLEKAR	043				685
19	6-19-21	6-19-21	ASHISH SINGH	119A2	SE	A	ashishsextc119@gst.sies.edu.in	8743961
	10:42:48	10:45:18		009				630
20	6-19-21	6-19-21	VAISHNAVI	118A2	TE	B	mukku.vaishnavi18@siesgst.ac.in	7738218
	10:58:17	10:59:29	MUKKU	067				012
21	6-19-21	6-19-21	SHOAIB	117A2	BE	B	shoaibsextc117@gst.sies.edu.in	9987868
	11:03:10	11:03:35	SHEKASAN	092				701
22	6-19-21	6-19-21	ROHAN MORE	118A2	TE	B	rohanmextc118@gst.sies.edu.in	9757126
	10:58:41	11:11:13		065				434
23	6-19-21	6-19-21	Sonakshi Jha	120A3	FE	E	sonakshijit120@gst.sies.edu.in	7317210
	11:07:25	11:11:35		056				555
24	6-19-21	6-19-21	ABHISHEK	219A2	TE	A	sheelwantabhishek219@siesgst.ac.in	8689811
	11:12:22	11:12:53	SHEELWANT	135				670

25	6-19-21 11:12:22	6-19-21 11:13:14	PRIYANKA NAIDU	219A2 130	TE	A	naidupriyanka219@siesgst.a c.in	7021027 877
26	6-19-21 11:10:49	6-19-21 11:16:07	SNEHA PARNE	118A2 078	BE	B	snehapextc118@gst.sies.edu .in	8452981 604
27	6-19-21 11:16:53	6-19-21 11:22:03	KHUSH PATIL	119A2 030	SE	A	khushpextc119@gst.sies.edu .in	9930611 623
28	6-19-21 11:37:01	6-19-21 11:37:32	JAIJANANI RADHAKRISHNA N	119A3 024	TE	E	jaijananiradhakrishnan19@si esgst.ac.in	8433547 387
29	6-19-21 11:27:36	6-19-21 11:39:40	SHRUTI SINGH	119A2 077	SE	B	shrutisextc119@gst.sies.edu. in	7303350 608
30	6-19-21 11:49:35	6-19-21 11:50:23	NIHAL SHAIKH	218A2 145	BE	A	nihal.shaikh218@siesgst.ac.i n	9137187 462
31	6-19-21 11:53:03	6-19-21 11:53:24	VISHAL NAREGAL	119A2 095	SE	B	naregalvishal19@siesgst.ac.i n	8652259 158
32	6-19-21 12:08:07	6-19-21 12:08:40	DEEPANSHU SOMVANSHI	119A2 014	TE	A	deepanshusextc119@gst.sie s.edu.in	9323120 152
33	6-19-21 12:07:43	6-19-21 12:09:35	Kunal Zambare	120A7 062	FE	B	kunalzecs120@gst.sies.edu.i n	9653350 625
34	6-19-21 12:11:14	6-19-21 12:12:36	DHRUV SUVARNA	119A2 015	SE	A	dhruvsextc119@gst.sies.edu .in	9769913 147
35	6-19-21 12:11:44	6-19-21 12:13:10	ANUSHKA SUR	119A2 008	SE	A	suranushka19@siesgst.ac.in	9320954 609
36	6-19-21 12:13:04	6-19-21 12:13:40	SAKSHI GAWALI	119A2 068	SE	B	gawalisakshi19@siesgst.ac.in	9320477 988
37	6-19-21 12:13:26	6-19-21 12:13:46	VISHAL NAREGAL	119A2 095	SE	B	naregalvishal19@siesgst.ac.i n	8652259 158
38	6-19-21 12:13:28	6-19-21 12:14:20	DARSHAN SONAWANE	119A2 012	SE	A	darshansextc119@gst.sies.e du.in	7710832 977
39	6-19-21 12:13:29	6-19-21 12:16:00	POOJA GUCHAIT	119A2 023	SE	A	poojagextc119@gst.sies.edu .in	7666047 510
40	6-19-21 12:12:29	6-19-21 12:18:26	AKAASH VR	119A2 006	SE	A	akaashvextc119@gst.sies.ed u.in	8424033 761
41	6-19-21 12:23:02	6-19-21 12:23:41	SRISHTI RAVI	119A2 081	SE	B	srishtiravi19@siesgst.ac.in	9821065 991
42	6-19-21 12:19:59	6-19-21 12:26:55	PREETI BIRAJDAR	119A3 040	TE	E	birajdarpreeti19@siesgst.ac.i n	9975891 590
43	6-19-21 12:32:28	6-19-21 12:33:44	VAISHNAVI SINGANMALLI	119A3 063	SE	E	singanmallivaishnavi19@sies gst.ac.in	8928755 954
44	6-19-21 12:39:04	6-19-21 12:40:31	UDIT CHATURVEDI	117A2 019	TE	A	uditcextc117@gst.sies.edu.i n	7678025 163
45	6-19-21 12:59:12	6-19-21 12:59:49	Sahil Saini	120A7 046	FE	B	sahilsecs120@gst.sies.edu.in	7045498 937
46	6-19-21 13:16:22	6-19-21 13:17:55	Jesno Joseph	220A2 107	SE	B	jesnojextc220@gst.sies.edu.i n	7510255 856
47	6-19-21 13:10:27	6-19-21 13:19:18	HITEN SHARMA	119A2 026	SE	A	hitensextc119@gst.sies.edu.i n	7045187 568
48	6-19-21 13:22:08	6-19-21 13:23:06	SRISHTI SHARMA	119A2 072	TE	B	srishtisharma19@siesgst.ac.i n	9167119 345
49	6-19-21 13:23:39	6-19-21 13:24:10	SHUBHAM BHANDARI	119A2 078	TE	B	parasshubham19@siesgst.ac .in	9769648 951
50	6-19-21 13:34:20	6-19-21 13:34:45	MENON MOHANKUMAR	218A2 129	BE	B	achutha.menon218@siesgst. ac.in	9920820 418
51	6-19-21 13:50:09	6-19-21 13:51:17	SAKSHI MAHADIK	219A2 127	TE	B	sakshimextc219@gst.sies.ed u.in	8369196 057
52	6-19-21 13:53:51	6-19-21 13:54:54	Mohammed Amin Bubere	220A2 104	SE	A	mohammedaminbextc220@ gst.sies.edu.in	7021539 108
53	6-19-21 13:57:03	6-19-21 13:58:39	VINIT RAI	119A2 094	SE	B	vinitrextc119@gst.sies.edu.i n	9372539 600

54	6-19-21 14:00:01	6-19-21 14:02:35	ADITI MOKASHI	119A2 005	SE	A	mokashiaditi19@siesgst.ac.in	9076168 206
55	6-19-21 14:02:54	6-19-21 14:03:54	PRANJAL THAKUR	119A2 057	SE	B	thakurpranjali19@siesgst.ac.in	7678086 486
56	6-19-21 14:05:54	6-19-21 14:06:31	Balasubramaniyam Konar	220A2 112	SE	A	balasubramaniyamkextc220@gst.sies.edu.in	7715847 955
57	6-19-21 14:07:43	6-19-21 14:08:18	SADISH NADAR	117A2 065	TE	A	Sadish.nadar17@siesgst.ac.in	8286330 012
58	6-19-21 15:54:52	6-19-21 15:59:44	Divya Singh	220A2 120	SE	A	divyasextc220@gst.sies.edu.in	8356979 595
59	6-19-21 16:37:53	6-19-21 16:40:04	AMAN DUBEY	117A2 026	BE	A	krishna.aman17@siesgst.ac.in	9869996 011
60	6-19-21 16:42:50	6-19-21 16:44:47	Yash Patil	220A2 115	SE	A	Yashpextc220@gst.sies.edu.in	8454928 259
61	6-19-21 16:58:22	6-19-21 17:00:22	Avula Kanakaiah	220A2 102	SE	B	Avulakextc220@gst.sies.edu.in	7977330 153
62	6-19-21 17:02:24	6-19-21 17:03:00	SHUBHAM MISHRA	118A2 063	BE	B	mishra.shubham18@siesgst.ac.in	8080355 395
63	6-19-21 17:02:54	6-19-21 17:03:58	SINGH KUMAR	118A2 103	BE	B	singh.rikee18@siesgst.ac.in	9653302 737
64	6-19-21 17:17:49	6-19-21 17:18:46	PARVATI PANDARAM	118A2 075	BE	B	pandaram.parvati18@siesgst.ac.in	9004139 881
65	6-19-21 17:27:00	6-19-21 17:30:17	ARCHANA SUBRAMANIAM	116A2 107	BE	B	archana.subramaniam16@siesgst.ac.in	8369375 069
66	6-19-21 17:38:10	6-19-21 17:39:15	SPARSHA UPADHYAY	118A2 113	BE	B	sparsha.sparsha18@siesgst.ac.in	7977464 195
67	6-19-21 17:45:35	6-19-21 17:45:45	CHETNA PRADHAN	119A2 011	SE	A	chetnapradhan19@siesgst.ac.in	8779633 773
68	6-19-21 17:45:05	6-19-21 17:45:59	SAKSHI SHETTY	118A2 097	BE	B	sakshi.shankar18@siesgst.ac.in	9987516 300
69	6-19-21 19:00:42	6-19-21 19:01:38	BALAKRISHAN MAGIPATI	118A2 057	TE	A	magipati.bala18@siesgst.ac.in	7039884 733
70	6-19-21 19:03:17	6-19-21 19:03:40	VIGHNESH MUDALIAR	119A2 093	TE	B	vighneshmextc119@gst.sies.edu.in	8355988 281
71	6-19-21 19:03:46	6-19-21 19:04:07	VIGHNESH MUDALIAR	119A2 093	TE	B	vighneshmextc119@gst.sies.edu.in	8355988 281
72	6-19-21 19:04:02	6-19-21 19:04:55	SAGAR MANE	118A2 059	TE	A	mane.sagar18@siesgst.ac.in	9326259 126
73	6-19-21 19:12:12	6-19-21 19:14:25	PUNIT SURYARAO	118A2 107	BE	B	suryarao.punit18@siesgst.ac.in	7045406 050
74	6-19-21 19:14:27	6-19-21 19:15:28	RASHMI SINGH	118A2 102	BE	B	rashmi.shankar18@siesgst.ac.in	8104371 394
75	6-19-21 20:04:30	6-19-21 20:05:29	KIRTIKUMAR CHITTAPUR	119A2 031	SE	A	chittapurkirtikumar@siesgst.ac.in	8356894 031
76	6-19-21 20:40:47	6-19-21 20:41:12	PAVLIN FERNANDES	119A2 018	TE	A	pavlinfextc119@gst.sies.edu.in	8275714 044
77	6-19-21 23:14:53	6-19-21 23:15:37	SHASHANK THAKUR	219A2 138	TE	B	shashanktextc219@gst.sies.edu.in	8898630 925
78	6-19-21 23:26:22	6-19-21 23:27:56	Omkar Yendhe	220A2 131	SE	B	omkaryextc220@gst.sies.edu.in	8828081 892
79	6-20-21 7:18:08	6-20-21 7:19:07	SUNNY TIWARI	119A2 086	SE	B	tiwarisunny19@siesgst.ac.in	9136333 746
80	6-20-21 9:54:49	6-20-21 9:56:28	KRUTIVENTI MEGHANA	119A2 033	SE	A	krutiventimeghana19@siesgst.ac.in	7021775 052
81	6-20-21 9:56:15	6-20-21 9:58:52	VEDAANTA LANDGE	119A2 037	SE	A	landgvedaanta19@siesgst.ac.in	8169419 572
82	6-20-21 11:03:39	6-20-21 11:04:22	KRISHNAVENI DOKI	119A2 032	SE	A	dokikrishnaveni19@siesgst.ac.in	9920239 093
83	6-20-21 11:34:53	6-20-21 11:36:54	ADHITYA KUMARAN	119A2 004	TE	A	adhityakumaran19@siesgst.ac.in	8291940 114

84	6-20-21 12:51:42	6-20-21 12:54:27	KUNAL PATKAR	119A2 035	SE	A	kunalpextc119@gst.sies.edu. in	8888116 776
85	6-20-21 12:54:49	6-20-21 12:59:07	VIGNESH MARLA	119A2 040	SE	A	vigneshmextc119@gst.sies.e du.in	7700002 319
86	6-20-21 12:56:30	6-20-21 13:13:00	MANAS MENDON	119A2 039	SE	A	mendonmanas19@siesgst.ac .in	8450960 219
87	6-20-21 13:23:18	6-20-21 13:25:14	KAVYA CHANDRASEKAR AN	119A2 029	SE	A	kavyachandrasekaran19@sie sgst.ac.in	9819292 542
88	6-20-21 13:40:09	6-20-21 13:41:31	Rahil Shaikh	220A2 119	SE	B	rahilsextc220@gst.sies.edu.i n	8356826 030
89	6-20-21 13:41:26	6-20-21 13:43:21	KEDAR SANT	118A1 074	TE	D	sant.kedar18@siesgst.ac.in	7710028 860
90	6-20-21 14:23:55	6-20-21 14:24:42	Afzal Syed	220A2 124	SE	B	afzalsextc220@gst.sies.edu.i n	7007119 188
91	6-20-21 15:14:50	6-20-21 15:18:05	GREESHMA NAIR	117A2 072	BE	A	greeshma.nair17@siesgst.ac. in	9967173 299
92	6-20-21 15:51:21	6-20-21 15:53:50	KAPIL GHOTKAR	116A2 022	BE	A	kapilgextc116@gst.sies.edu.i n	9082675 842
93	6-20-21 18:46:01	6-20-21 18:51:36	YASH GHILDIYAL	118A2 027	BE	A	yashgextc118@gst.sies.edu.i n	9867942 471
94	6-20-21 19:30:11	6-20-21 19:35:26	VATSAL KORE	119A2 092	SE	B	korevatsal19@siesgst.ac.in	7977728 491
95	6-20-21 19:45:52	6-20-21 19:47:04	RUCHA MUSHRIF	117A6 031	BE	F	ruchamme117@gst.sies.edu. in	9619798 066
96	6-20-21 19:50:21	6-20-21 19:51:41	SAMEEKSHA RAI	119A2 070	SE	B	sameeksharai19@siesgst.ac.i n	9833103 140
97	6-20-21 20:09:05	6-20-21 20:11:52	OM MISAL	118A2 062	SE	B	ommextc118@gst.sies.edu.i n	9096763 539
98	6-20-21 19:55:21	6-20-21 20:14:59	Harshada Koli	220A2 111	SE	B	harshadakextc220@gst.sies. edu.in	9920247 219
99	6-20-21 21:11:30	6-20-21 21:14:00	ABHISHEK SINGH	119A3 004	SE	E	abhisheksit119@gst.sies.ed u.in	6388715 810
100	6-20-21 21:14:36	6-20-21 21:15:14	PRADNYA TALEKAR	119A2 056	SE	B	talekarpradnya19@siesgst.a c.in	9920772 040
101	6-20-21 21:50:38	6-20-21 21:52:32	MELETHIL SHAHEEM	119A2 041	TE	A	melethilshaheem@siesgst.ac .in	9137167 356
102	6-20-21 21:53:51	6-20-21 21:55:18	MELETHIL SHAHEEM	119A2 041	TE	A	melethilshaheem19@siesgst .ac.in	9137167 356
103	6-20-21 23:26:31	6-20-21 23:27:09	AARYAN KUMBHAR	119A2 002	SE	A	kumbharaaryan19@siesgst.a c.in	9136348 889
104	6-20-21 23:38:13	6-20-21 23:39:19	PARESH PRABHU	218A2 142	BE	A	paresh.prabhu218@siesgst.a c.in	7977248 341
105	6-20-21 23:50:19	6-20-21 23:55:16	TANISHA SHEIKH	119A2 082	SE	B	tanishasextc119@gst.sies.ed u.in	9372600 177
106	6-20-21 23:59:36	6-21-21 0:01:11	SHAMIKA ASLEKAR	118A2 007	TE	A	shamika.prasad18@siesgst.a c.in	7715836 541
107	6-21-21 8:29:34	6-21-21 8:31:00	Balasubramaniy am Konar	220A2 112	SE	B	balasubramaniyamkextc220 @gst.sies.edu.in	7715847 955
108	6-21-21 10:06:08	6-21-21 10:07:46	ANIKET WAGH	118A2 117	TE	B	aniket.wagh18@siesgst.ac.in	9819379 138
109	6-21-21 11:06:52	6-21-21 11:07:16	SAMEET SABU	119A2 071	SE	B	sameetsextc119@gst.sies.ed u.in	7506309 812
110	6-21-21 11:39:04	6-21-21 11:39:36	AMISH SHETTY	119A2 073	SE	B	amishsextc119@gst.sies.edu .in	9022330 011
111	6-21-21 12:25:45	6-21-21 12:25:49	ATHARVA ZADBUKE	118A2 121	BE	B	zadbuke.atharva18@siesgst. ac.in	9370254 498
112	6-21-21 12:54:18	6-21-21 12:59:11	ANIKET WAGH	118A2 117	TE	B	aniketwextc118@gst.sies.ed u.in	9819379 138

113	6-21-21 13:19:33	6-21-21 13:20:41	Gouri Singh	220A2 121	SE	A	gourisextc220@gst.sies.edu.in	9555435 355
114	6-21-21 14:03:15	6-21-21 14:04:50	RITHIK PATIL	119A2 059	SE	B	patilrithik19@siesgst.ac.in	8433583 154
115	6-21-21 18:40:44	6-21-21 18:42:12	JINENDR POOJARY	119A2 055	SE	B	poojaryjinendr19@siesgst.ac.in	9987428 658
116	6-21-21 18:41:05	6-21-21 19:00:08	ASHWIN KURUP	119A2 036	SE	A	kurupashwin19@siesgst.ac.in	7039406 510
117	6-22-21 4:00:01	6-22-21 4:01:01	MANAS MENDON	119A2 039	SE	A	mendonmanas19@siesgst.ac.in	8450960 219
118	6-22-21 6:08:27	6-22-21 6:09:51	HARSHAL DHAKE	119A2 024	SE	A	dhakeharshal19@siesgst.ac.in	8779087 961
119	6-22-21 9:24:03	6-22-21 9:24:20	ARYAN SORTE	119A2 080	SE	B	sortearyan19@siesgst.ac.in	8655506 998
120	6-22-21 19:26:22	6-22-21 19:27:36	Prateek Hunasikatti	120A2 017	FE	A	prateekhextc120@gst.sies.edu.in	9136069 902
121	6-22-21 23:19:24	6-22-21 23:21:38	CHAITALI NIMSE	119A2 050	SE	A	chaitalinextc119@gst.sies.edu.in	7718899 118
122	6-23-21 0:23:11	6-23-21 0:23:49	Suhas Kankute	220A2 108	SE	B	suhaskextc220@gst.sies.edu.in	9702249 733
123	6-23-21 1:22:34	6-23-21 1:23:48	VITIKA MAHTO	118A2 058	BE	A	vitika.prakash18@siesgst.ac.in	8104784 080
124	6-23-21 11:46:11	6-23-21 11:47:30	Mitesh Haldankar	220A2 106	SE	B	miteshhextc220@gst.sies.edu.in	8879521 576
125	6-23-21 19:16:25	6-23-21 19:17:33	RAHUL IYER	119A6 034	TE	F	rahulime119@gst.sies.edu.in	9082500 580
126	6-24-21 2:15:32	6-24-21 2:16:30	KARTHIKA DEVENDRAN	119A6 019	SE	F	devendrankarthika19@siesgst.ac.in	8928141 508
127	6-24-21 10:57:48	6-24-21 10:58:28	NEVIN CHIDAMBARAM	119A6 026	SE	F	nevincme119@gst.sies.edu.in	9769156 482
128	6-25-21 16:53:02	6-25-21 16:53:41	SRIKRIPAA S	118A3 057	TE	E	Srikripaa.s18@siesgst.ac.in	7264032 538
129	6-26-21 20:42:11	6-26-21 20:43:21	Santoshkumar Sinha	220A2 122	SE	A	santoshkumarsextc220@gst.sies.edu.in	8451923 087
130	6-26-21 22:40:45	6-26-21 22:41:43	Suhas Kankute	220A2 108	SE	B	suhaskextc220@gst.sies.edu.in	9702249 733
131	6-27-21 17:40:06	6-27-21 17:42:02	DEEP BHANUSHALI	119A2 013	SE	A	deepbextc119@gst.sies.edu.in	8830879 133
132	6-27-21 21:56:15	6-27-21 21:57:13	UDIT CHATURVEDI	117A2 019	TE	A	uditcextc117@gst.sies.edu.in	7678025 163

3. Feedback (Analysis)

In One week SDP on 'Introduction Embedded and IoT' Students were taught basics of embedded systems, various microprocessor/microcontroller based boards, sensors, communication protocols & RTOS. The quiz was conducted at the end of everyday based on content covered.

Students were given case study topic at the end of SDP in a group.

Module wise quiz was conducted and analysis of the same is as given below.

Sr. No.	Module Name	% of Students Scoring 60% and above marks
1	Introduction to Embedded Systems	71.62%
2	Microcontroller based Boards	97.18 %
3	Sensors	97%
4	Communication Protocols	98%
5	Introduction to cloud and IoT	94%
6	Real Time Operating	100%

4. Certificate

