Central Instrumentation Centre

Central Instrumentation Centre (CIC)

About:

Central Instrumentation Centre was established on 22nd Dec 2016 and operated by the department of ECE, to cater to product development, equipment maintenance, and support experimental research for various departments/centres of the VFSTR (Deemed to be university) by providing sophisticated instruments. It is equipped with various instruments necessary for testing and measuring and tools for service, maintenance, and repair works of all electronic equipment/appliances & teaching aid. Support for students and faculty across the university in the design and fabrication of instrumentation modules is provided by CIC.

Objectives:

The objectives of the CIC are to:

- Achieve excellence in instrumentation
- Maintenance of all Sophisticated Instruments of the University
- Repair & Service of Electronic equipment.
- Train students and faculty in instrument design and development
- Organizing training programmes to enhance the technical skills of scientific community

Outcomes:

- Quality improvement in instruments developed
- Extended life of the electronic systems
- Skilful students/faculty

Equipment list:

Major Equipment	
1.	Data Acquisition System DAQ6510/7700(Tektronics) – 800channels/second, 1 MS/s, 16 BitDigitizer
2.	Digital Multimeter (Tektronics) DMM6500 – 6 ½ Digit,
3.	RF Spectrum AnalyzerN9320B(Keysight)– Bandwidth 9 kHz to 3 GHz,
4.	Arbitrary Function Generator 33512B(Keysight) – 1 µHz to 20 MHz
5.	Multi Signal Oscilloscope MSO3024T(KEYSIGHT) – 16 digital channel, 200MHz, 2GS/s
6.	Moku Lock in Amplifier (Liquid Instruments) – 200MHz
7.	Scientific SM 6023 LCR Meter – 50 Hz to 100 kHz, 6 Digit Resolution
8.	Aadarsh Technologies Humidity Chamber 3CFT (90L) – 10°C to 60°C, 20RH to 75RH
9.	Multi-function calibrator Masibus UC 12
10.	Function Generator(APLAB) 2 MHZ
11.	Akademika Lab Solutions DSO 100MHz 1GS/s COLOR Digital storage oscilloscope with FFT
12.	USB-6211(NI) Bus-Powered M Series Multifunction DAQ Device
13.	My RIO-1900(NI) for student purchase WIFI and MSP Connector

14.	USB 9171(NI)single slot chassis
15.	USB 9237(NI) for Strain Measurement Input module.
16.	CAN interface bus compatible with my 19671RIO hardware platform.
17.	DAQ USB9181(NI) 4-Channel, SPST Relay Single slot chassis Data Acquisition System for Temperature and transport over Ethernet protocol.
18.	USB 9219(NI) 100 S/s/channel, 4-Channel C Series Universal Analog Input module for temperature module.
19.	USB IEEE 488(NI) GPIB HS Simulator and Instrument Simulator hardware bundle.
20.	Spectrum Analyzer Tracing Generator SN- EP160060 (GSAS) 3GHz
21.	PCB fabrication machine Eleven Lab (Entuple technologies) – Spindle Speed: 41,000rpm, Camera Monitoring System, working area of 229x320mm
Minor Equipment	
1.	Digital multimeter 17B+ (Fluke) – 3½ digit
2.	Gauss Meter GU 3001 (Lutron) – up to 3,000 mG, resolution 0.1 mG
3.	Clamp meter 317 (Fluke) – up to 600 A
4.	Panel meter SMP-72 (Meco) – 4 Digit, 0-1000V
5.	Infrared thermometer 62Max plus (Fluke) – -30°C to +650°C
6.	Lux meter 930P (Meco) – 0 to 2,00,000 Lux
7.	Sound meter SL 4030 (Lutron) – 30DB to 130DB, 31.5Hz to 8000 Hz
8.	Pressure switch KP 35(Danfoss) – -0.2 to 7.5 Bar
9.	Differential pressure calibrator(Magnalic gauge calibrator) PSI/PP1 (ACE) – 0 to 1410 mm.W.C
10.	Battery tester BM-63 (Meco) – 2,6,12V DC, 4-500 AH
11.	SMPS RS-15-5 (Mean well) – 5 VDC, 15W
12.	Digital differential pressure transmitter AI-DIGI-MAG-T (ACE) – Accuracy ±0.5 full scale
13.	Stereo Zoom MicroscopeSZB-45E Mag: 7x to 45x
14.	Digital Multimeter (APLAB) 3¾ Digit VC97
15.	Regulated DC Power Supply (APLAB) 0-32 V/2A
16.	Tachometer System Non-Contact Type tachometer-HTM-560
17.	Analog, Digital IC testers
Software	
1.	DAQMX driver software and Signal Express LE for Windows
2.	Lab View Academy Student Workbook for Student Use with Official Lab View Academy Program
3.	My DAQ - Student Kit - with Lab View & Multisim Student Edition
4.	PCB design software Cadence OrCADPCB 17.4 – 50 user licence
5.	Design prowith Converter and CAM – Importing design and controlling and setup PCB machine.
6.	Easy CAD for PCB design – Pattern creation, pattern drawing and editing
Consumables	
1.	**Sensors-** Temperature, RTD, ultrasonic, flex, capacitive, inductive, velocity, strain, piezoelectric, displacement, pressure, angle, force, accelerometer, PIR, Gyrometer, Fingerprint, RPM, AirQuality, Lidar, Water level,etc.

2.	**Actuators-** DC Motor, stepper motor, solenoidal valve, servomotor,etc
3.	**ICs-** ADC(TI-ADC),OP-Amps, Multiplexers, regulators, instrumentation amplifiers, etc
4.	**Discrete components-** Resistors, capacitors, diodes, transistors, led, Breadboards, etc
5.	**Tools-** Screw driver set, strippers, Gluegun, Tweezers, soldering gun, drilling machine etc

Services offered by CIC

Following are the services offered by CIC:

- Repair and Maintenance of Scientific Electronic and Electrical equipment
- Servicing of electronic devices
- Design of scientific instruments
- PCB design and component soldering for instrumentation
- Impedance, I-V, C-V measurements
- Electronic equipment testing under controlled humidity and temperature
- Support for Research and development activities for students and faculty

Contact Details

Center Incharges:

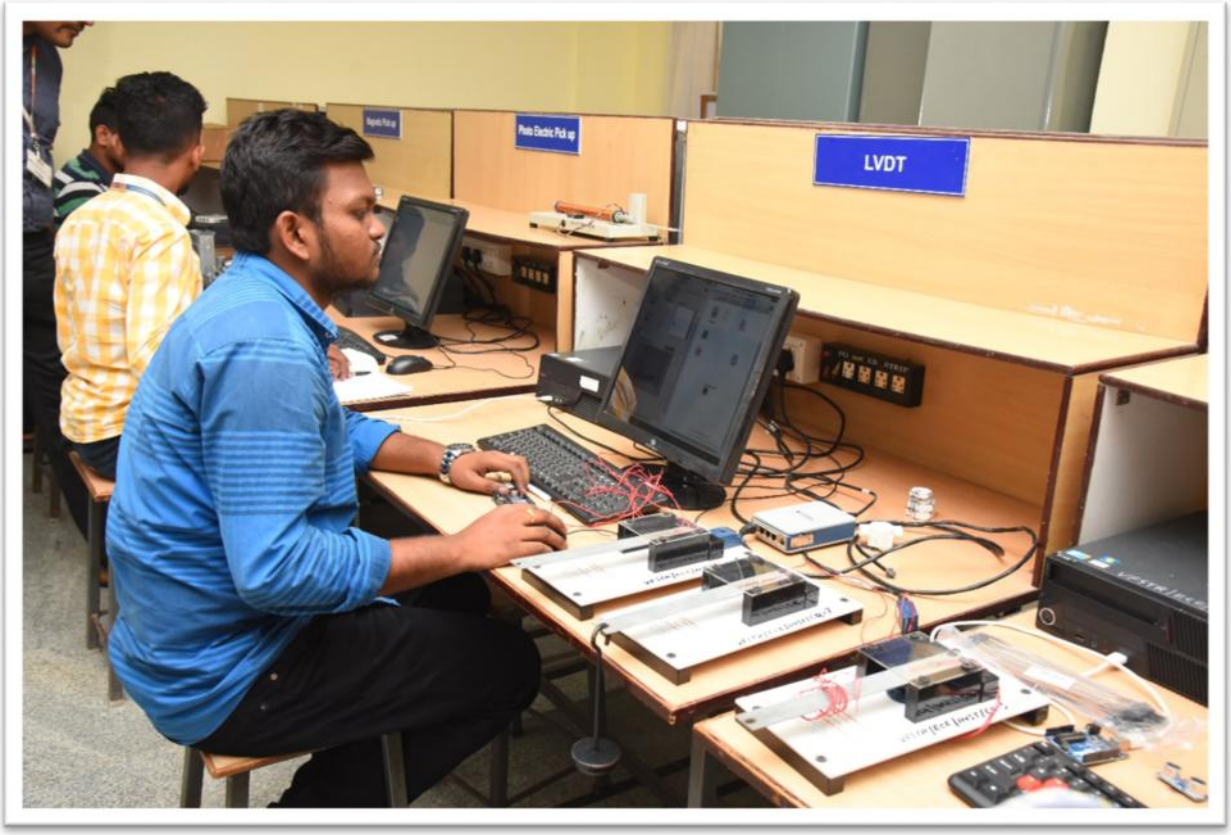
1. Dr. N V R Vikram G
   Email: gnvrvikram@gmail.com
   Phone: 9482840480
2. Mr. S. Sivaji
   Email:sivaji.ganesh1100@gmail.com
   Phone: 9160072782

HOD: Prof T. Pitchaiah

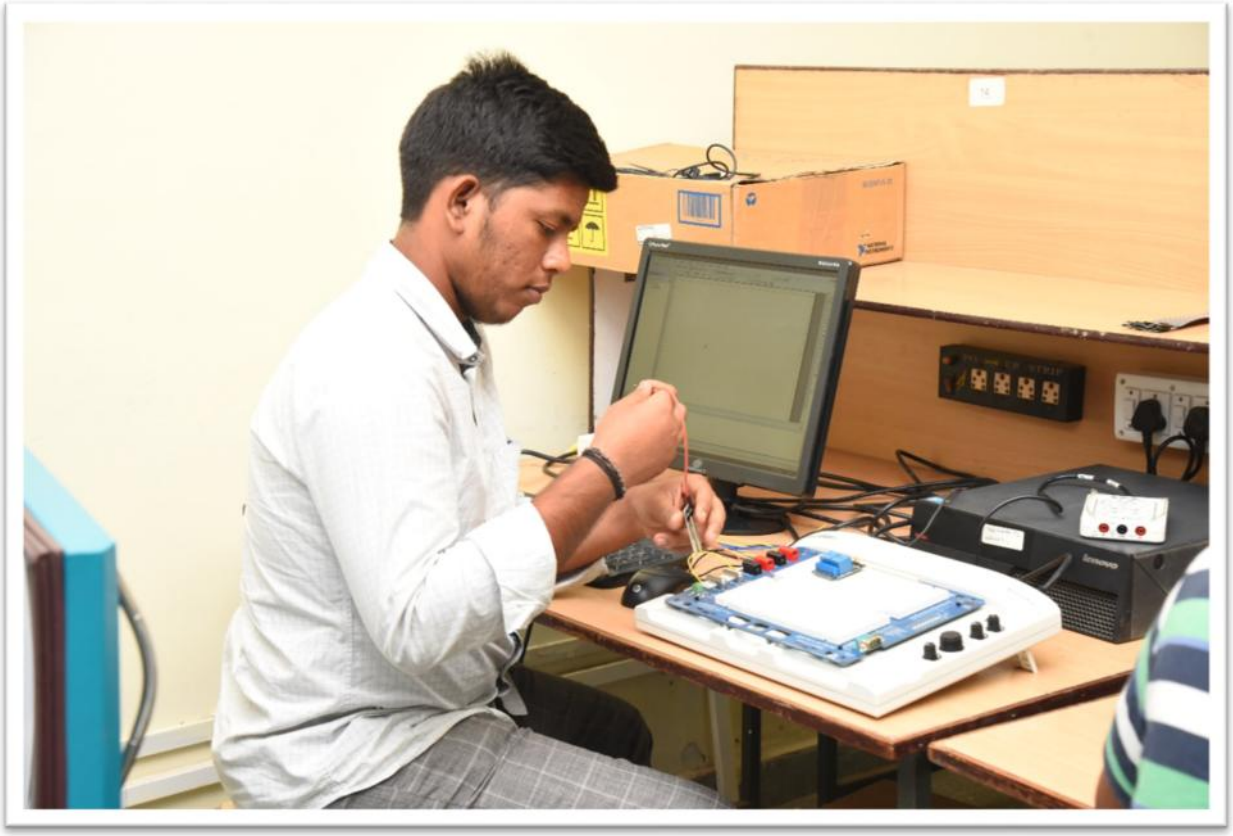
Email: hodece@vignan.ac.in

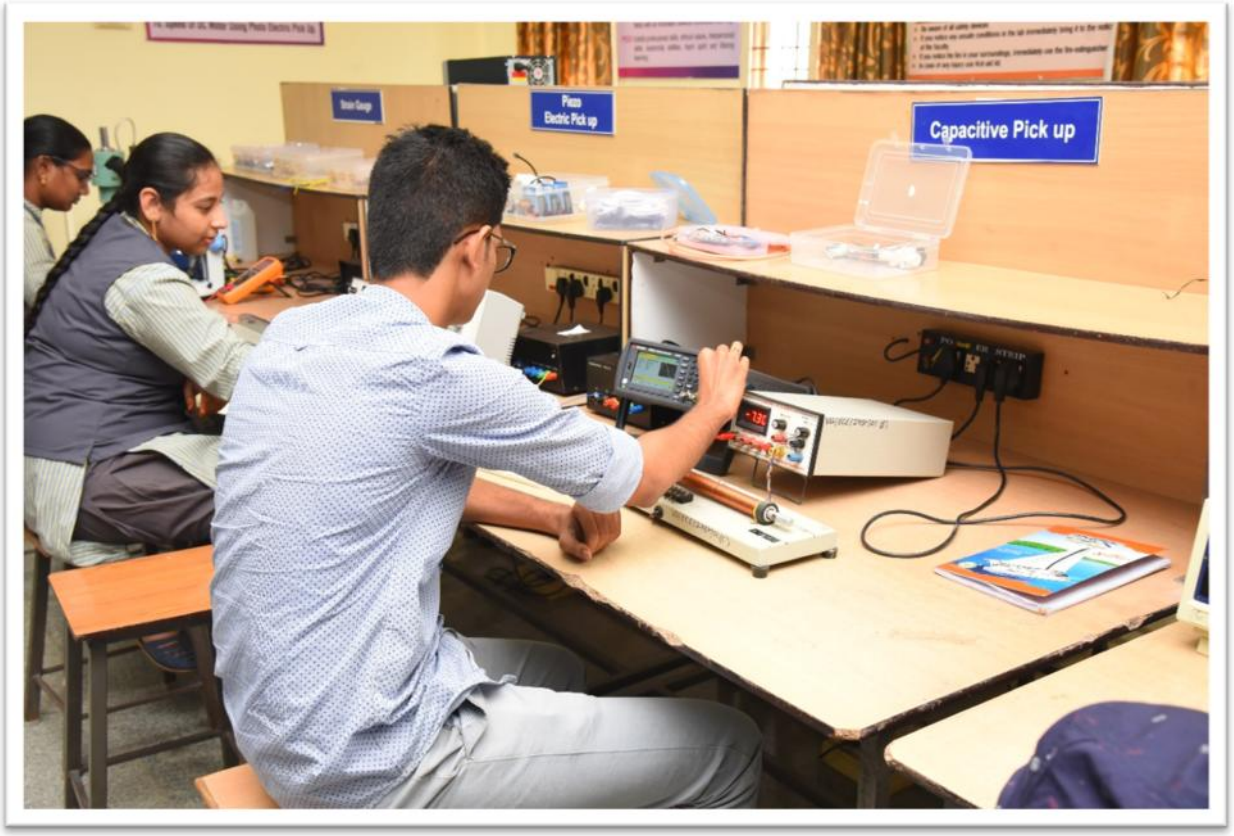
Phone: 7989672766/9703551269.

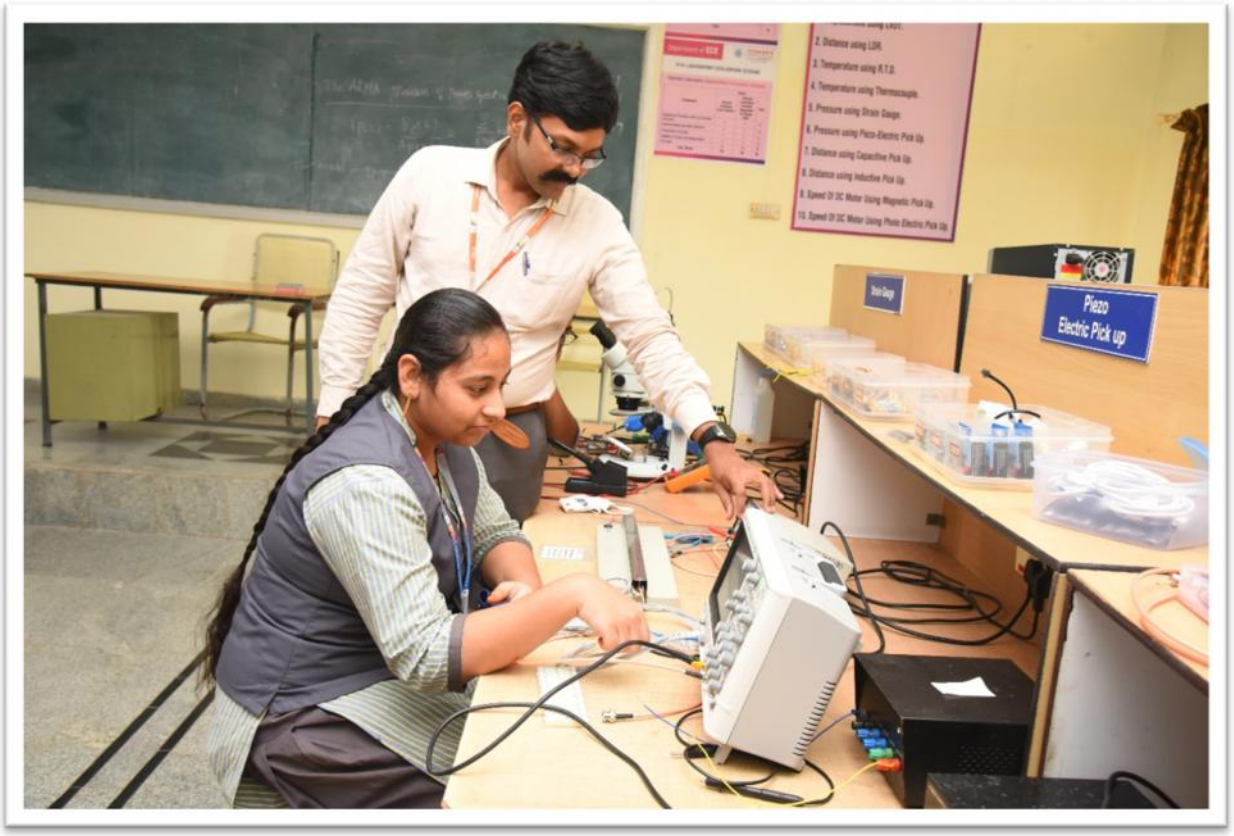
Gallery:




LDR
R.T.D




Strain Gauge
Piezo
Electric Pick up
Capacitive Pick up


Strain Gauge
Piezo
Electric Pick up

Location

https://www.google.com/maps/place/Central+Instrumentation+Center,+VFSTR/@16.2319437,80.5465704,17z/data=!3m1!4b1!4m5!3m4!1s0x3a4a0908c9b2261d:0xf80006358696561d!8m2!3d16.2319437!4d80.5487591?hl=en-IN

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

S. No	Entity
	CoE and Research Center – File List
1.	**Name of the COE/research Centre/Physical laboratory:**
2.	Room No:
3.	Name of the lab incharge (Faculty)
4.	Name of the Lab Technician
5.	Name of the faculty incharge (for any curriculum lab- CL)
6.	Faculty/Lab Technician Profile
7.	Physical lab floor plan with area in Sq.m
8.	Highlights
9.	Outcomes of the Lab (Ex. Papers, Ph.D scholars, patents, workshops, seminar organized)
10.	Broucher
11.	Manual if any
12.	List of external visitors (Faculty/Students/Experts)
13.	Lab occupancy chart
14.	List of the equipment and total cost (S.No, Description,suppliers, Date of purchase, unit price, qty, total)
15.	List of major equipment.
16.	List of Labeling/Number code of the equipment
17.	Dos and Don'ts
18.	List of Major/Mini projects
19.	Inventory List
20.	Student log-in register
21.	Stock register (which includes date of purchase, supplier, indent, GRN, bill number)
22.	Maintenance register
23.	Consumables register
24.	Service/Repair register
25.	Equipment operation manual provided by the manufacturer.
26.	File of filled indents forms or issue/return Register

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

24th May, 2016

Recommendations of the committee for Establishment of Central Instrumentation Centre (CIC)

Ref: Letter dated 4th Mar 2016 for Establishment of Central Instrumentation Centre (CIC)

Following are the agenda points finalized by the members of internal committee for establishment of CIC:

1. The existing instrumentation lab (VTF-10) could be upgraded to CIC along with available instruments.
2. The following equipment need to be procured additionally:
    a. DAQ
    b. Regulated Power Supplies
    c. Digital multimeters
    d. Waveform generators.
    e. Soldering station & drilling machine.
3. Upgrade the facilities of CIC periodically.

1. Dr Usha Rani N
2. Dr B Seetharamanjaneyulu
3. Mr T Pitchiah
4. Ms. M Sarada
5. Mr.Y Ravi Shekhar
6. Ms. K. Annapurna
7. Mr. S Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

4th March, 2016

Reg: Establishment of Central Instrumentation Centre (CIC)

To fulfill the instrumentation needs of university and based on the recommendations of the NAAC committee -2015, it has been decided that Central instrumentation Centre has to be established with new facilities.An internal committee has been constituted with the following members to identify and procure the equipment needed for the establishment of CIC.

1. Dr Usha Rani N
2. Dr B Seetharamanjaneyulu
3. Mr T Pitchiah
4. Ms. M Sarada
5. Mr.Y Ravi Shekhar
6. Ms. K. Annapurna
7. Mr. S Sivaji

(Dr Usha Rani N)
HoD, ECE

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Central Instrumentation Centre (CIC)
Academic year2020 to2021

1	Name of the Physical Laboratory	Electronic Instrumentation Laboratory
2	Room No	VTF-10
3	Name of the lab in-charge(Faculty)(for physical lab-pl)	S.Sivaji & Dr.NVR Vikram.G
4	Name of the lab assistant (for physical lab)	G.Venkateswarlu
5	Name of the Faculty in-charge (for curriculum lab-CL)	S.Sivaji

Lab In-charge: **Deputy HOD** **HOD (ECE)**

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Department of Electronics & Communication Engineering

CENTRAL INSTRUMENTATION CENTRE (CIC)

Vignan's Foundation for Science, Technology & Research
(Deemed to be University)
Vadlamudi, Andhra Pradesh.

Department of

Electronics and Communication Engineering

(Accredited by NBA)

Central Instrumentation Centre (CIC)

Dr. T. Pitchaiah,
HoD, ECE

Centre Incharges :
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9482840480
Mr. S. Sivaji, Asst. Professor
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9160072782

VIGNAN'S UNIVERSITY

NAAC 'A'

About:

Central Instrumentation Centre was established by the department of ECE, to cater to product development, equipment maintenance, and support experimental research for various departments / centers of the university by providing sophisticated instruments. It is equipped with various instruments necessary for testing and measuring and tools for service, maintenance, and repair works of all electronic equipment/appliances & teaching aid. Support for students and faculty across the university in the design and fabrication of instrumentation modules is provided by CIC.

Objectives:

The objectives of the CIC are to:

- Achieve excellence in instrumentation
- Maintenance of all Sophisticated Instruments of the University
- Repair & Service of Electronic equipment.
- Train students and faculty in instrument design and development
- Organizing training programmes to enhance the technical skills of scientific community
- To allow outside users to utilize CIC equipment on a nominal payment basis.

Outcomes:

- 54 Intra Disciplinary projects (IDP) done by II, III & IV B Tech as part of their course.
- Designed and successfully implemented electronic part in Tree climbing robot project.
- One patent was filed.
- Patent published with title 'AUTOMATIC EYE BLINK DETECTOR USING NI MYRIO', Dr.N. USHARANI & Mr. Jhon William Carey Medithe.

Services offered by CIC:

Following are the services offered by CIC:

- Repair and Maintenance of Scientific Electronic and Electrical equipment
- Servicing of electronic devices
- Design of scientific instruments
- PCB design and component soldering for instrumentation
- Impedance, I-V, C-V measurements
- Electronic equipment testing under controlled humidity and temperature
- Support for Research and development activities for students and faculty

Equipment List

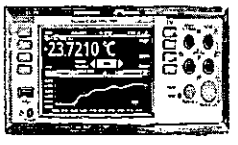
1. 6½-digit Data Acquisition AND System (KEITHLEY 6510) with 20 multiplexed channels & KickStart Instrument Control Software to quickly program a data acquisition test on a PC.
2. RF Spectrum Analyzer (Keysight N93208), 9 KHz to 3GHz.
3. Mixed Signal Oscilloscope (MSO) Keysight MSO3024T -200MHz, 4 Channel, 16 Digital Chann els, Memory depth of 4MPts. Update rate of 1,000,000 wfrms/s with standard segmented memory, 8.5-inch capacitive touch screen.
4. Arbitrary Function Generator (Keysight 335128) 20 MHz, 2-Channelwith Arb.
5. Liquid Instruments Moku: Lab Lock-In amplifier 200 MHz Range Along with touch screen apple iPad.
6. LCR Meter (Scientific 6023) Precision of LCR Meter -0.05% 50Hz-100KHz DCR Function, 6-digit resolution- for Impedance measurement
7. 6½-digit Bench/System Digital Multimeter (KEITHLEY DMM6500) with Scanning.
8. Humidity chamber with Temperature Range from 10° C to 60 °C +1 °C(tolerance) , Humidity Range up to 95% RH & 90 Ltr capacity.

Data Acquisition System

6½-digit DAQ6510 touchscreen provides simple configuration with visual and intuitive test setups to reduce setup and test time with 20 multiplexed channels.

Make a wider range of measurements:

- Voltage: 100 nV to 1000 V with 0.0025% basic DCV accuracy
- Current: 10 pA to 3A
- Resistance: 1 μÙ to 120 MÙ
- Capacitance: 0.1 pF to 100 μF
- Temperature measurement with thermocouples, resistance temperature detectors, and thermistors from -200°C to 1820°C
- 1 M sample/s, 16-bit digitizer with 7 million readings storage

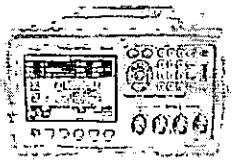


Fast PC automation with the KickStart Data Acquisition Application :

Use the KickStart Instrument Control Software to quickly program a data acquisition test on a PC. The software does not require programming; just enter a test setup using the menu screens. Then visualize your results in tabular and graphical formats.

LCR Meter

Description: LCR meter is a type of electronic test equipment used to measure the inductance (L), capacitance (C), and resistance (R) of an electronic component.[1] In the simpler versions of this instrument the impedance was measured internally and converted for display to the corresponding capacitance or inductance value.Usually the device under test (DUT) is subjected to an AC voltage source. The meter measures the voltage across and the current through the DUT. From the ra e the meter can determine the magnitude of the impedance. The phase angle between the voltage and current is also measured.



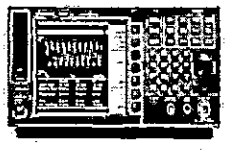
Features:

- Basic accuracy: 0.05%
- 6 digit reading resolution
- Maximum test frequency of 100 kHz
- 4.3" TFT LCD display
- Maximum test speed: 13 ms/time

Spectrum Analyzer

Description: A spectrum / signal analyzer measures the magnitude of an input signal versus frequency within the full frequency range of the instrument. The primary use is to measure the power of the spectrum of known and unknown signals. Given the challenge of characterizing the behavior of today's RF devices, it is necessary to understand how frequency, amplitude, and modulation parameters behave over short and long intervals of time.

Traditional tools like Swept Spectrum Analyzers (SA) and Vector Signal Analyzers (VSA) provide snapshots of the signal in the frequency domain or the modulation domain. This is often not enough information to confidently describe the dynamic nature of modern RF signals. To overcome these evolving challenges, it is crucial for today's engineers and scientists to be able to reliably detect and characterize RF signals that change over time, something not easily done with traditional measurement tools.

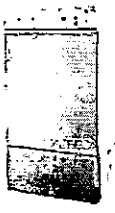


Specifications:

- Minimum non-zero span sweep time : < 10 ms
- Resolving power RBW : 10 Hz to 1 MHz
- Sensitivity DANL : -130 dBm, -148 dBm with preamp on
- Overall amplitude accuracy : ±0.5 dB
- Frequency : 9 kHz to 3 GHz
- Overall Amplitude Accuracy : ±0.5 dB
- Phase Noise @1 GHz (1 MHz offset) : -112 dBc/Hz
- Standard Attenuator Step : 1 dB
- Maximum Dynamic Range 3rd Order @1 GHz: 96 dB

Humidity Chamber

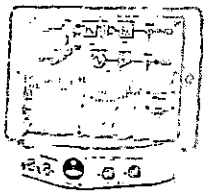
Description : An environmental test chamber artificially replicates conditions which machinery, materials, devices or components might be exposed to. It is also used to accelerate the effects of exposure to the environment, sometimes at conditions not actually expected.Chamber testing involves testing and exposing products to various environmental conditions in a controlled setting. Climatic Chamber testing and Thermal Shock testing are part of chamber testing. Climatic Chamber testing is a broad category of ways to simulate climate or excessive ambient conditions exposure for a product or a material under laboratory-controlled yet accelerated conditions.



Specifications:

- Temperature Range : 10° C to 60 °C +1 °C
- Relative Humidity : upto 95% RH
- Capacity : 3CFT(90L)

Lock - In Amplifier

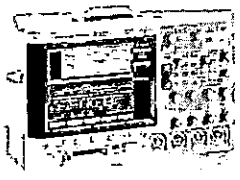


Description: A lock-in amplifier is a type of amplifier that can extract a signal with a known carrier wave from an extremely noisy environment. Depending on the dynamic reserve of the instrument, signals up to 1 million times smaller than noise components, potentially fairly close by in frequency, can still be reliably detected. It is essentially a homodyne detector followed by low-pass filter that is often adjustable in cut-off frequency and filter order. Moku:Lab's Waveform Generator enables users to generate two independent waveforms with a sampling rate of 1 GSa/s, a maximum frequency of 250 MHz and a output voltage range of ± 1 V into 50 ©. Select between sine, square, ramp, pulsed or DC waveform shapes. Modulate the phase, frequency or amplitude, or generate triggered bursts or sweeps from an internal or external source.

Features:

- Measure XY or Rè simultaneously relative to an internal or external reference
- Observe signals at different stages in the signal processing chain using probe points
- Demodulate signals at frequencies up to 200 MHz
- Reveal signals obscured by noise with more than 120 dB dynamic reserve
- Log data from any probe point at up to 1 MSa/s

MSO (Mixed Signal Oscilloscope)



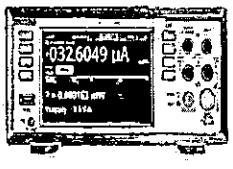
Description :A mixed signal oscilloscope (MSO) is a type of digital storage oscilloscope designed to display and compare both analog signals and digital signals. It has input channels for both analog signals and digital signals. Analog signals are displayed as voltage levels varying continuously over time. These voltage-versus-time waveforms are traditionally measured using oscilloscopes. Signals may be connected directly to the oscilloscope's analog input channels or connected through an oscilloscope probe.

In contrast, digital channels measure logic values (0 or 1). The determination of whether a signal represents 0 or 1 is based on a threshold value set by the user. Digital logic signals have traditionally been measured by logic analyzers, but for many tasks a mixed signal oscilloscope is more convenient. MSOs provide much of the basic capabilities of a logic analyzer, namely digital timing analysis.

Specifications:

- Bandwidth : 200MHz
- Channels : 4 analog channels
- Max sample rate : 5 GSa/s
- Display : 8.5-inch capacitive touch display
- Wfm update rate : > 1,000,000 waveforms per second

Digital Multi Meter

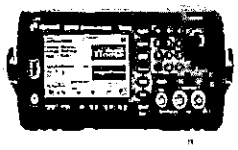


Description :DMMs, are used by electrical and electronic engineers to perform more advanced measurements and gain confidence in their designs. These instruments are extremely precise and have a variety of advanced functionality, including the ability to program automation, slow or speed up measurements to observe low-level or transient signal behavior, and interface with other instruments.

Features :

- 15 measurement functions including capacitance, temperature, and digitizing
- Expanded measurement ranges include 10 pA to 10 A and 1 µ&! to 100 M&!
- Large 5-inch (12.7 cm) multi-touch capacitive touchscreen with graphical display Large internal memory.
- store up to 7 million readings.
- Capture voltage or current transients with 1 MS/sec digitizer

Arbitrary Waveform Generator



Description: An arbitrary waveform generator (AWG) is a piece of electronic test equipment used to generate electrical waveforms. These waveforms can be either repetitive or single-shot (once only) in which case some kind of triggering source is required (internal or external). The resulting waveforms can be injected into a device under test and analyzed as they progress through it, confirming the proper operation of the device or pinpointing a fault in it. Unlike function generators, AWGs can generate any arbitrarily defined waveshape as their output. The waveform is usually defined as a series of "waypoints" (specific voltage targets occurring at specific timAes along the waveform) and the AWG can either jump to those levels or use any of several methods to interpolate between those levels.

Features:

- Amplitude ranges : 1 mVpp up to 10 Vpp
- sampling rate : 250 MSa/s
- amplitude resolution : 16-bit
- Waveform generator with arb capability
- THD : < 0.04%
- Jitter : < 40 ps

Applications:

Sensing & Instrumentation, Signal Processing, Test & Measurement, Medical

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

I Semester: 2021 - 22

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10

Dates: 01-09-2021

TIME/ DAY	8:10 to 09:50	09:50 to10:05	10:05 to 12:35	12:35 to 01:30	01:30 to 04:00
MON	Maintenance	BREAK	S&I LAB-III-A	LUNCH	S&I LAB-III-B
TUE	EI - IV-B		EI - IV-C		EI - IV-E
WED	EI - IV-C		EI - IV-A		EI - IV-B
THU	EI - IV-D		BST LAB III BME		S&I LAB-III-C
FRI	EI - IV-A				S&I LAB-III-D
SAT	EI - IV-D		EI - IV-E		BST LAB III BME

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	III-ECE-A	**Faculty In-charge:**	Mr Taj.
		Supporting Faculty:	Dr R Ranganayakulu ,Ms Spandan, Mr V Subba Rao.
2	III-ECE-B	**Faculty In-charge:**	Dr Sharad Kumar Tiwari.
		Supporting Faculty:	Dr R Ranganayakulu ,Ms Spandan, Mr V Subba Rao.
3	III-ECE-C	**Faculty In-charge:**	Dr Sharad Kumar Tiwari.
		Supporting Faculty:	Mr.S.Sivaji, Ms Spandan, Mr V.Subba Rao.
4	III-ECE-D	**Faculty In-charge:**	Dr Venkata kishore
		Supporting Faculty:	Mrs K Hima Bindu,Mr Karra Anil Kuamr ,Mr V Subba Rao .
5	III-BME-A BST	**Faculty In-charge:**	Mr Taj.
		Supporting Faculty:	Mr Karra Anil Kumar(Thu)
6	IV-ECE-A	**Faculty In-charge:**	Dr R Ranganayakulu
		Supporting Faculty:	Mr Karra anil Kuamr

7	IV-ECE-B	**Faculty In-charge:**	Mr Ashutosh Kumar Dikshit
		Supporting Faculty:	Mrs K Hima Bindu
8	IV-ECE-C	**Faculty In-charge:**	Mr S Sivaji
		Supporting Faculty:	Dr P Sambaiah
9	IV-ECE-D	**Faculty In-charge:**	Mr Ashutosh Kumar Dikshit
		Supporting Faculty:	Mr Karra Anil Kumar
10	IV-ECE-E	**Faculty In-charge:**	Mrs K Hima Bindu
		Supporting Faculty:	Dr K Venkata Kishore

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

II Semester: 2020 - 21

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 05-04-2021**

TIME / DAY	08:10am to 09:50am	09:50am to 10:05am	10:05am to 12:35pm	12:35pm to 01:35pm	01:35pm to 02:25pm	02:25pm to 03:15pm	03:15pm to 04:05pm
MON	Maintenance	BREAK		LUNCH		Lab Practice	
TUE			BMI LAB				
WED			BMI LAB			Lab Practice	
THU					Maintenance		
FRI						Lab Practice	
SAT							

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	II-BME-A	Faculty In-charge:	Mr.B.Sunil Tej
		Supporting Faculty:	Mrs Pratyusha

Lab Technician: Mr:G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

I Semester: 2020 - 21

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 29-12-2020**

TIME/ DAY	09:00am to 10:40am	10:40am to 11:00am	11:00am to 12:40pm	12:40pm to 01:40pm	01:40pm to 02:30pm	02:30pm to 03:20pm	03:20pm to 05:00pm
MON	Maintenance	BREAK	EI Lab-A	LUNCH	EI Lab-B	Lab Practice	
TUE	EI Lab-A				EI Lab-B		
WED	EI Lab-D		EI Lab-C			Lab Practice	
THU	EI Lab-C		EI Lab-D		Maintenance		
FRI	EI Lab-E		EI Lab-F			Lab Practice	
SAT	EI Lab-E		EI Lab-A		EI Lab-F		

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	IV-ECE-A	**Faculty In-charge:**	Mr.M.Sekhar.
		Supporting Faculty:	Dr.K.Venkat Kishore.
2	IV-ECE-B	**Faculty In-charge:**	Mr.M.Sekhar.
		Supporting Faculty:	Mr.Karra anile Kumar.
3	IV-ECE-C	**Faculty In-charge:**	Dr.Ranganayakulu.
		Supporting Faculty:	Mr.Karra anile Kumar.
4	IV-ECE-D	**Faculty In-charge:**	Dr.Ranganayakulu.
		Supporting Faculty:	Mrs.Naga Jyothi Sree.
5	IV-ECE-E	**Faculty In-charge:**	Dr.Sharath Tiwari.
		Supporting Faculty:	Dr.K.Venkat Kishore.
6	IV-ECE-F	**Faculty In-charge:**	Dr.Sharath Tiwari
		Supporting Faculty:	Mrs.Naga Jyothi Sree.

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

II Semester: 2019 - 20

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 06-12-2019**

TIME/ DAY	08:00am to 09:40am	09:40am to 10:00am	10:00am to 12:30pm	12:30pm to 01:20pm	01:20pm to 02:10pm	02:10pm to 03:00pm	03:00pm to 03:50pm
MON	Maintenance	BREAK	EI Lab-A	LUNCH		Lab Practice	
TUE			EI Lab-B				
WED			EI Lab-A			Lab Practice	
THU					Maintenance		
FRI						Lab Practice	
SAT			EI Lab-B				

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	IV-ECE-A	**Faculty In-charge:**	Dr.K.Venkata Kishore, Dr.RanganayakuluMr
		Supporting Faculty:	Dr.K.Venkat Kishore, M.Sekhar, Dr.R.Ranganayakulu, S.Sivaji
2	IV-ECE-B	**Faculty In-charge:**	Mr. S Sivaji, Dr.K.Venkata Kishore,
		Supporting Faculty:	Dr.K.Venkat Kishore, M.Sekhar, Dr.R.Ranganayakulu, S.Sivaji

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

I Semester: 2019 - 20

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 07-08-2019**

TIME/ DAY	08:00am to 11:05am	09:50am to 10:10am	10:10am to 12:55pm	12:55pm to 01:55pm	12:55pm to 03:45pm	
MON	Maintenance	BREAK	EI Lab-B	LUNCH	EI Lab-C	
TUE			EI Lab-B		EI Lab-D	
WED						Lab Practice
THU			EI Lab-D		EI Lab-C	
FRI	EI Lab-A					Lab Practice
SAT	EI Lab-A					

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	IV-ECE-A	**Faculty In-charge:**	Mr.S.Sivaji
		Supporting Faculty:	Mr.CHANDAN KUMAR, Ms.PRIYAM SINGH
2	IV-ECE-B	**Faculty In-charge:**	Mr.M.Sekhar, Mr.Manikantan
		Supporting Faculty:	Mr.CHANDAN KUMAR, Mrs.Prathyusha
3	IV-ECE-C	**Faculty In-charge:**	Mr.S.Sivaji, Mr.Manikantan
		Supporting Faculty:	Ms.PRIYAM SINGH, Mr.SUBBA RAO
4	IV-ECE-D	**Faculty In-charge:**	Mr.M.SEKHAR
		Supporting Faculty:	Mr.SUBBA RAO, Mr.KARRA ANIL KUMAR

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

II Semester: 2018 - 19

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 05-07-2018**

TIME / DAY	08:00am to 09:50am	09:50am to 10:10am	10:10am to 12:55pm	12:55pm to 01:55pm	01:55pm to 02:50pm	02:50pm to 03:45pm
MON	Maintenance	BREAK		LUNCH		Lab Practice
TUE						
WED			EMI Lab-A			Lab Practice
THU			EMI Lab-B		Maintenance	
FRI			EMI Lab-A			Lab Practice
SAT			EMI Lab-B			

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	IV-ECE-A	Faculty In-charge:	Mr.Dhana prakash
		Supporting Faculty:	Viajaya Raghavan, S.Sivaji
2	IV-ECE-B	Faculty In-charge:	Mr.Dhana prakash
		Supporting Faculty:	Dr.G.N.V.R.Vikram

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

I Semester: 2018 - 19

Central Instrumentation Centre (CIC)

Lab Occupancy Chart (Sample)

Room No: VTF – 10 **Dates: 05-07-2018**

TIME / DAY	08:00am to 09:50am	09:50am to 10:10am	10:10am to 12:55pm	12:55pm to 01:55pm	01:55pm to 02:50pm	02:50pm to 03:45pm
MON	Maintenance	BREAK	EMI Lab-A	LUNCH		Lab Practice
TUE			EMI Lab-B			
WED			EMI Lab-A			Lab Practice
THU			EMI Lab-B		Maintenance	
FRI			EMI Lab-C			Lab Practice
SAT			EMI Lab-C			

S.No	Physical Lab In-charge	Mr.S.Sivaji	
1	IV-ECE-A	Faculty In-charge:	Ashline
		Supporting Faculty:	Viajaya Raghavan
2	IV-ECE-B	Faculty In-charge:	Ashline , S.Sivaji
		Supporting Faculty:	ViajayaRaghavan,Dhanprakash
3	IV-ECE-C	Faculty In-charge:	S.Sivaji.
		Supporting Faculty:	Dhanprakash

Lab Technician: Mr.G.Venkateswarlu

Lab In-charge: Mr.S.Sivaji

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DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

Central Instrumentation Center (CIC)

Equipment Details

Venue : VTF -10

S No	Name of the Equipment	Invoice number	Date of purchase	Supplier	Quantity	Price
1	Masibus-UC-12 Universal Calibrator	1056/01/2020-21	3-Nov-20	Instrukart holdings	1	110000
	Differential Pressure Gauge Calibrator				1	23000
	Digital Multimeter-Fluke 17B+				5	39195
	Gauss Meter-Lutron GU-3001				1	31000
	Infrared Thermometer - (-30 Deg C to 650 Deg C)				1	17000
	Clamp Meter				1	15960
	Lux Meter				1	2340
	Sound level Meter				1	4820
	Pressure Switch				5	4750
	Digital Differential pressure transmitter				2	14400
	Battery tester				1	1950
	Panel meter				5	2280
	Switched Mode Powe Supply				4	2880
2	Lock-in Amplifier 200 MHz Range	PTCS/043/20-21	1-Sep-20	PREMIER Test Cal Systems	1	525000
	LCR Meter				1	65000
3	Temp/Humidity chamber -Temperature range Range 10°C to 60°C +/-°C & Humidity Range upto 95% RH	AT/133/2020-21	1-Sep-20	AADARSH Technologies	1	110213
4	Digital Microscope	677	1-Sep-20	VAISHALI INDUSTRY	1	22000
5	Spectrum Analyzer, 9 KHz to 3GHz	IGST 20-002	18-Mar-20	SYNARGY MEASUREMENT TECHNOLOGIES PVT LTD	1	496211
	Mixed Signal Oscilloscope(MSO) 200MHz, 4 Channel, 16 Digital Channels				1	373098
	Arbitrary Waveform Generator 20 MHz, 2-Channel				1	187537

S No	Name of the Equipment	Invoice number	Date of purcha	Supplier	Quantity	Price
6	Digital Multi Meter with Scanning (DM[illegible]2 Digit)	PT-036/20-21	18-Mar-20	Peridot Technologies	1	80000
	Data Acquisition and Multimeter system with 20 CH Multiplexer Card				1	157000
7	Regulated Power Supplies	DTA/012/18-19	4-Jul-18	Aplab	3	38238
8	2MHz Multi-Waveform signal generators	18300198	25-Jun-18	Aplab	3	22500
9	2MHz Multi-Waveform signal generators	17300300	14-Jul-17	Aplab	3	20814
10	Regulated Power Supplies	17400363	14-Jul-17	Aplab	3	44127
11	Digital Multi Meter	17730519	14-Jul-17	Aplab	7	12950
12	NI CAN interface bus compatible with my RIO hardware platform	51	3-Nov-16	National Instruments	1	19671
13	Monitor	65	10-Oct-16	Integrated electronics	1	4650
14	CPU	96	3-Sep-16	Integrated electronics	1	14000
15	Data Acquisition System USB9181 Single slot chassis	33	16-Jul-16	National Instruments	1	38587
	USB 9171single slot chassis & USB 9237 for Strain Measurement					250463
	USB 9171 single slot chassis & USB 9219 Universal Analog Input module					.350553
	NI USB based GPIB HS Simulator					113318
	NI CAN interface bus compatible with my RIO hardware platform					19671
16	Monitors	RTPL/VJA/00251	2-Jul-16	ROOP TECHNOLOGY PVT LTD	9	41850
17	CPU	66	14-Oct-15	Integrated electronics	9	67707
18	Digital Storage Oscilloscope	ALS/14-15/0112	29-Mar-14	Akademika Lab solutions	5	126000
19	NI USB-6211,NI myDAQ , NI myRIO-1900	4	29-Mar-14	National Instruments	10	1471994
20	Non Contact Type Tachometer	EEE/S-0063	3-Sep-13	Electrical Electronics enterprises	5	7156
21	Different sensors & Actuators					621027
	GST					178152
	Total Amount					5749062

Lab Incharge

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Central Instrumentation Center (CIC)

List of Major Equipment

(above Rs.10,000) **As on 1st August 21**

S. No.	Name of the Equipments	Unit Cost	Quantity
1	RF Spectrum Analyzer (BSA),9khz to 3GHz	4,96,211.25	01
2	Mixed Signal Oscilloscope	3,73,098.00	01
3	Waveform Generator,20 MHz,2-Channel with Arb	1,87,537.50	01
4	6-1/2 Digit Bench/System Digital Multimeter with Scanning	80,000	01
5	Data Acquisition and Multimeter System with 20 CH	1,57,000	01
6	Humidity Chamber	1,15,723	01
7	Lock-in Amplifier:200MHZ Range	5,51,250	01
8	LCR meter:	65,000	01
9	USB BASED DATA ACQUISITION SYSTEM(VUDAS-100)	27900	05
10	NI CAN interface bus compatible with my RIO hardware platform.	19671	02
11	Data Acquisition System for Temperature and transport over Ethernet protocol USB9181 Single slot chassis.	38587	01
12	NI USB based GPIB HS Simulator and Instrument Simulator hardware bundle	113318	01
13	Inductive Pickup (IT-7)	10650	05
14	DC Motor using Photoelectric Pickup Module (IT-1(p))	15350	05
15	100MHZ 1GS/s COLOUR DIGITAL STORAGE OSCILLOSCOPE WITH FFT	25000	05
16	*Experimental setup for Strain Measurement Application.*	250463	01
16	Experimental Setup for Temperature Measurement Application using Thermocouple and RTD	350553	01

Lab Incharge

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

List of Labeling/ number Code of the Equpment

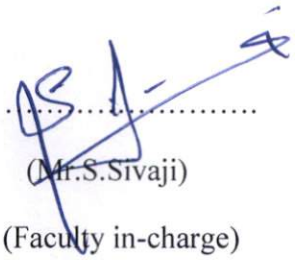
Academic year: 2020 to2021,Semester I

Central Instrumentation Center (CIC)

S.No	S.No Of the Equipment	Name of the Equipment
1	VU/ECE/Inst/12(A)	SYSTEM Non Contact Type Tachometer-HTM-560.
2	VU/ECE/Inst/12(B)	SYSTEM Non Contact Type Tachometer-HTM-560.
3	VU/ECE/Inst/12(C)	SYSTEM Non Contact Type Tachometer-HTM-560.
4	VU/ECE/Inst/12(D)	SYSTEM Non Contact Type Tachometer-HTM-560.
5	VU/ECE/Inst/12(E)	SYSTEM Non Contact Type Tachometer-HTM-560.
6	VU/ECE/Inst/10(A)	100MHZ 1GS/s Colour Digital Storage Oscilloscope With FFT.
7	VU/ECE/Inst/10(B)	100MHZ 1GS/s Colour Digital Storage Oscilloscope With FFT.
8	VU/ECE/Inst/10(C)	100MHZ 1GS/s Colour Digital Storage Oscilloscope With FFT.
9	VU/ECE/Inst/10(D)	100MHZ 1GS/s Colour Digital Storage Oscilloscope With FFT.
10	VU/ECE/Inst/10(E)	100MHZ 1GS/s Colour Digital Storage Oscilloscope With FFT.
11	VFSRR/ECE/Inst/EQ-4	Thermocouple and R.T.D.
12	VFSRR/ECE/Inst/EQ-5	Experimental Setup for Strain Measurement Application.
13	VFSRR/ECE/Inst/EQ-3	DATA ACQUISITION SYSTEM for Temperature and transport over Ethernet protocol USB9181 Single Slot Chassis.
14	VFSRR/ECE/Inst/EQ-1	NI CAN interface bus compatible with my RIO Hardware platform.
[illegible]	VFSRR/ECE/Inst/EQ-2	NI CAN interface bus compatible with my RIO Hardware platform.
[illegible]	VFSRR/ECE/Inst/EQ-6	Experimental Setup for Communication Protocol Application.
17	VFSTR/ECE/CPU-63	CPU
18	VFSTR/ECE/M-49	Monitor
19	VFSTR/ECE/EQ-01	FG
20	VFSTR/ECE/EQ-02	FG
21	VFSTR/ECE/EQ-04	FG
22	VFSTR/ECE/EQ-13	RPS
23	VFSTR/ECE/EQ-22	RPS
24	VFSTR/ECE/EQ-23	RPS
25	VFSTR/ECE/IC-27	RPS
26	VFSTR/ECE/IC-28	RPS
27	VFSTR/ECE/IC-	RPS
28	VFSTR/ECE/IC-06	FG
29	VFSTR/ECE/IC-13	FG

30	VFSTR/ECE/IC-	FG
31	VFSTR/ECE/CIC-1.1	NI USB 6211
32	VFSTR/ECE/CIC-1.2	NI USB 6211
33	VFSTR/ECE/CIC-1.3	NI USB 6211
34	VFSTR/ECE/CIC-1.4	NI USB 6211
35	VFSTR/ECE/CIC-1.5	NI USB 6211
36	VFSTR/ECE/CIC-1.6	NI USB 6211
37	VFSTR/ECE/CIC-1.7	NI USB 6211
38	VFSTR/ECE/CIC-1.8	NI USB 6211
39	VFSTR/ECE/CIC-1.9	NI USB 6211
40	VFSTR/ECE/CIC-1.10	NI USB 6211
41	VFSTR/ECE/CIC-2.1	My DAQ
42	VFSTR/ECE/CIC-2.2	My DAQ
43	VFSTR/ECE/CIC-2.3	My DAQ
[illegible]	VFSTR/ECE/CIC-2.4	My DAQ
45	VFSTR/ECE/CIC-2.5	My DAQ
46	VFSTR/ECE/CIC-2.6	My DAQ
47	VFSTR/ECE/CIC-2.7	My DAQ
48	VFSTR/ECE/CIC-2.8	My DAQ
49	VFSTR/ECE/CIC-2.9	My DAQ
50	VFSTR/ECE/CIC-2.10	My DAQ
51	VFSTR/ECE/CIC-3.1	My RIO
52	VFSTR/ECE/CIC-3.2	My RIO
53	VFSTR/ECE/CIC-3.3	My RIO
54	VFSTR/ECE/CIC-3.4	My RIO
55	VFSTR/ECE/CIC-3.5	My RIO
56	VFSTR/ECE/CIC-3.6	My RIO
57	VFSTR/ECE/CIC-3.7	My RIO
58	VFSTR/ECE/CIC-3.8	My RIO
59	VFSTR/ECE/CIC-3.9	My RIO
[illegible]	VFSTR/ECE/CIC-3.10	My RIO
[illegible]	VFSTR/ECE/CPU-4.1	CPU
62	VFSTR/ECE/CPU-4.2	CPU
63	VFSTR/ECE/CPU-4.3	CPU
64	VFSTR/ECE/CPU-4.4	CPU
65	VFSTR/ECE/CPU-4.5	CPU
66	VFSTR/ECE/CPU-4.6	CPU
67	VFSTR/ECE/CPU-4.7	CPU
68	VFSTR/ECE/CPU-4.8	CPU
69	VFSTR/ECE/CPU-4.9	CPU
70	VFSTR/ECE/M-5.1	Monitor
71	VFSTR/ECE/M-5.2	Monitor
72	VFSTR/ECE/M-5.3	Monitor
73	VFSTR/ECE/M-5.4	Monitor
74	VFSTR/ECE/M-5.5	Monitor

75	VFSTR/ECE/M-5.6	Monitor
76	VFSTR/ECE/M-5.7	Monitor
77	VFSTR/ECE/M-5.8	Monitor
78	VFSTR/ECE/M-5.9	Monitor
79	VFSTR/ECE/CIC-6	6-1/2 Digit Bench/System Digital Multimeter with Scanning
80	VFSTR/ECE/CIC-7	Data Acquisition and Multimeter System with 20 CH Multiplexer Card
81	VFSTR/ECE/CIC-8	Waveform Generator,20 MHz,2-Channel with Arb
82	VFSTR/ECE/CIC-9	Mixed Signal Oscilloscope(MSO) 200MHz, 4 Channel, 16 Digital Channels
83	VFSTR/ECE/CIC-10	Spectrum Analyzer, 9 KHz to 3GHz
84	VFSTR/ECE/CIC-11	Digital Microscope
85	VFSTR/ECE/CIC-12	Temp/Humidity chamber
86	VFSTR/ECE/CIC-13	LCR Meter
87	VFSTR/ECE/CIC-14	Lock-in Amplifier 200 MHz Range
88	VFSTR/ECE/CIC-15	Masibus-UC-12 Universal Calibrator
[illegible]	VFSTR/ECE/CIC-16	Differential Pressure Gauge Calibrator
90	VFSTR/ECE/CIC-17.1	Panel meter
91	VFSTR/ECE/CIC-17.2	Panel meter
92	VFSTR/ECE/CIC-17.3	Panel meter
93	VFSTR/ECE/CIC-17.4	Panel meter
94	VFSTR/ECE/CIC-17.5	Panel meter
95	VFSTR/ECE/CIC-18	Gauss Meter-Lutron GU-3001
96	VFSTR/ECE/CIC-19	Infrared Thermometer - (-30 Deg C to 650 Deg C)
97	VFSTR/ECE/CIC-20	Clamp Meter
98	VFSTR/ECE/CIC-21	Lux Meter
99	VFSTR/ECE/CIC-22	Sound level Meter
100	VFSTR/ECE/CIC-23.1	Digital Multimeter
101	VFSTR/ECE/CIC-23.2	Digital Multimeter
102	VFSTR/ECE/CIC-23.3	Digital Multimeter
103	VFSTR/ECE/CIC-23.4	Digital Multimeter
[illegible]	VFSTR/ECE/CIC-23.5	Digital Multimeter
[illegible]	VFSTR/ECE/CIC-24.1	Digital Differential pressure transmitter
106	VFSTR/ECE/CIC-24.2	Digital Differential pressure transmitter
107	VFSTR/ECE/CIC-25	Battery tester
108	VFSTR/ECE/CIC-26.1	Pressure Switch
109	VFSTR/ECE/CIC-26.2	Pressure Switch
110	VFSTR/ECE/CIC-26.3	Pressure Switch
111	VFSTR/ECE/CIC-26.4	Pressure Switch
112	VFSTR/ECE/CIC-26.5	Pressure Switch
113	VFSTR/ECE/CIC-27.1	Switched Mode Powe Supply
114	VFSTR/ECE/CIC-27.2	Switched Mode Powe Supply
115	VFSTR/ECE/CIC-27.3	Switched Mode Powe Supply
116	VFSTR/ECE/CIC-27.4	Switched Mode Powe Supply



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(Mr.S.Sivaji)

(Faculty in-charge)

.....

(Dr.T.Pitchaiah)

(HOD,Dept. of ECE)

Department of ECE

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Do's

- Lab attendance is mandatory.
- All the students must follow the proper dress-code.
- All the students must bring the lab records for every lab session.
- Do familiarize the procedures of the experiment before exercise in the lab.
- Follow all the written and verbal instructions carefully before starting the experiment.
- Always be sure that electrical equipment is turned in the off position before plugging into a socket.
- If any student has any problem in experimenting bring it to the notice of the faculty immediately.
- Any failure or break-down of equipment must be reported to the teacher immediately.
- Always be responsible in the laboratory.
- Keep your belongings at the designated area.
- Know all the operating procedures of safety equipment and their location.
- Arrange stools/chairs properly before leaving the lab.

Don'ts

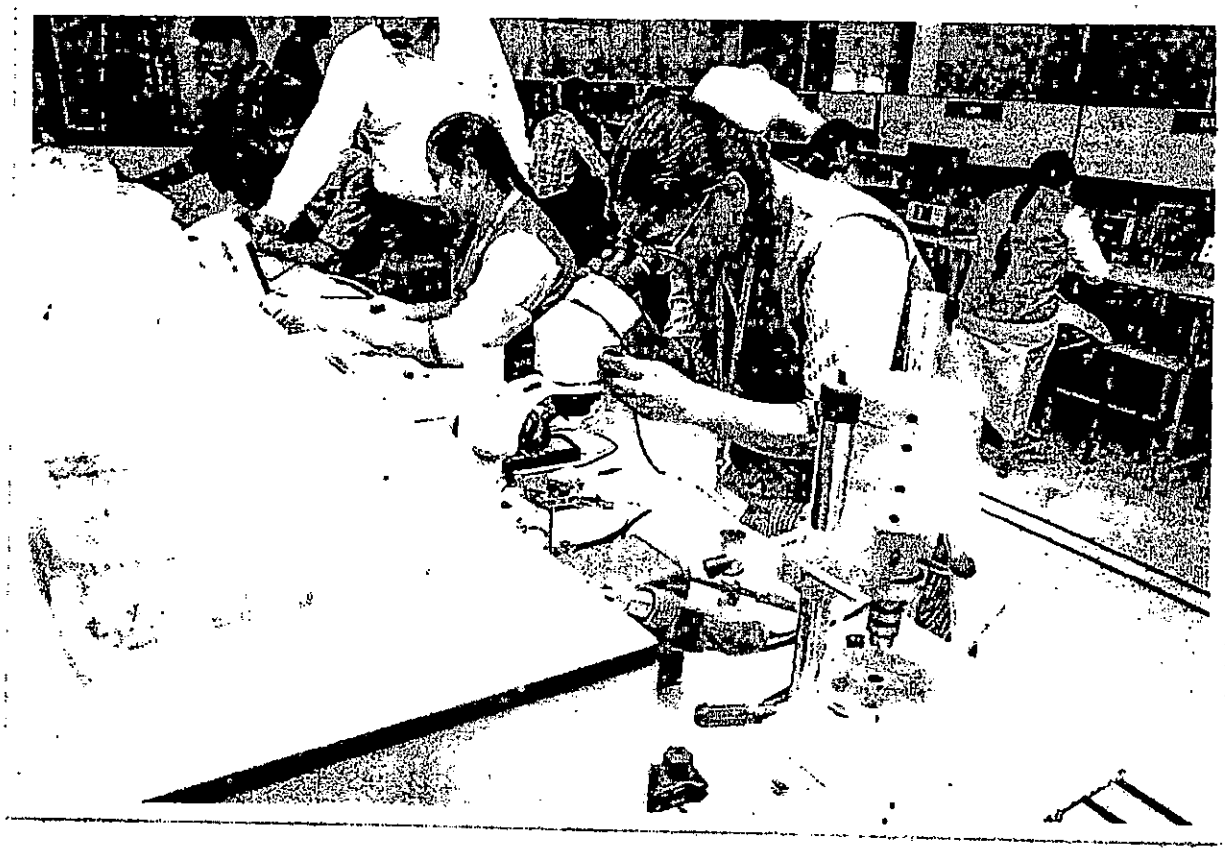
- Don't eat and drink food items in the lab.
- Do not use mobile phones in the lab.
- Don't use the mouth for cutting wires, instead use cutter only.
- Do not be unattached when the experiment is going on.
- Do not meddle in other's experiments and distract, startle in the laboratory.
- Don't bring bags to the area of workbench.
- Don't use water if you find electrical fire, instead use the fire-extinguisher.
- Don't take away or misplace any equipment in the lab without any permission.

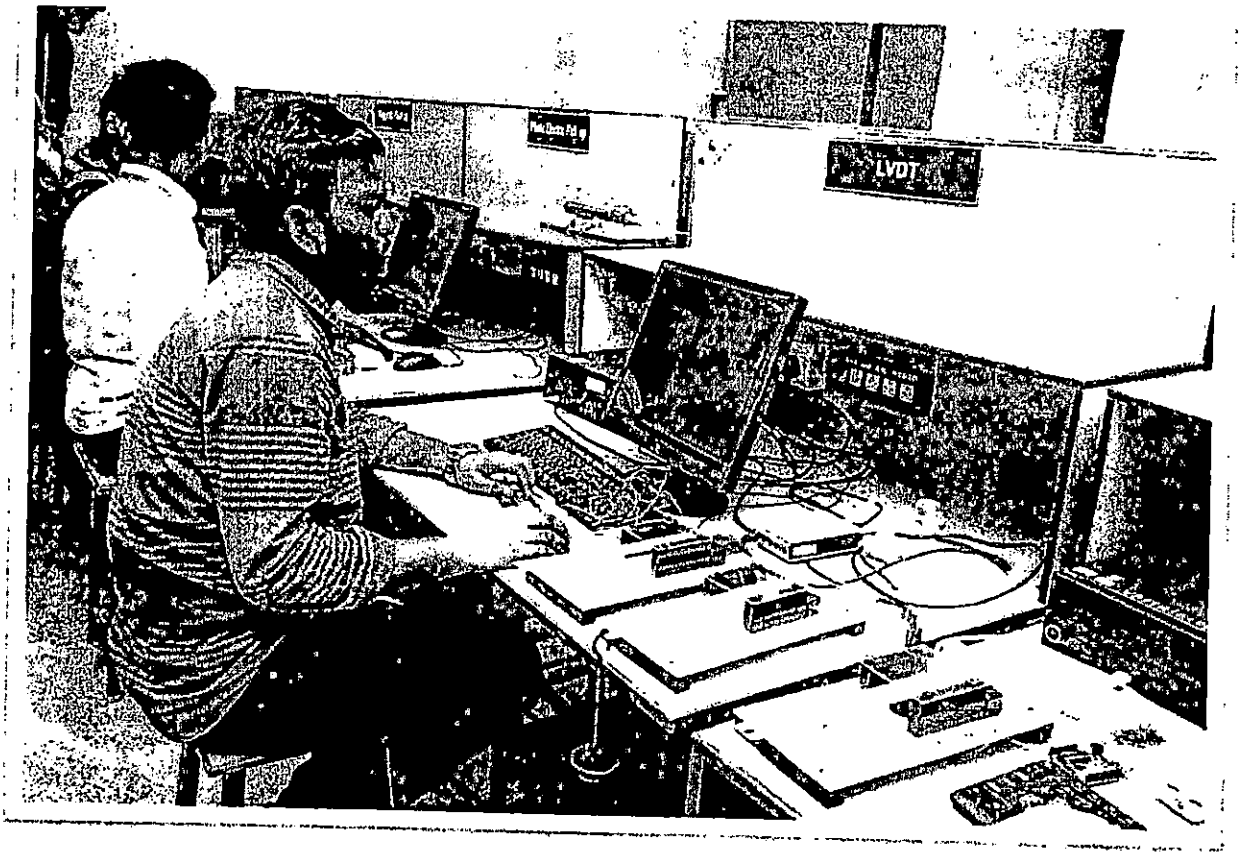
Safety rules:

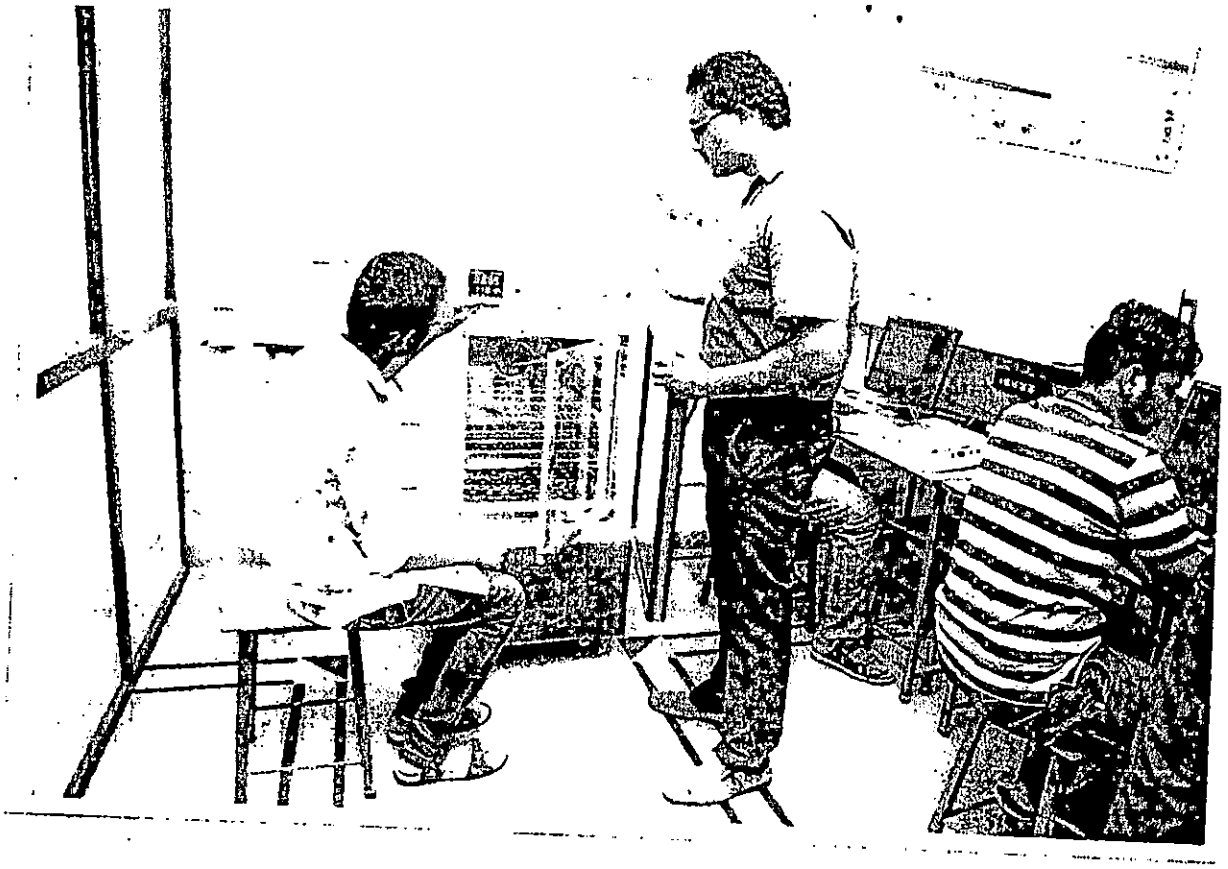
- Be aware of all safety devices.
- If you notice any unsafe conditions in the lab immediately bring it to the notice of the faculty.
- If you notice the fire in your surroundings, immediately use the fire-extinguishers.
- In case of any injury use first-aid kit.

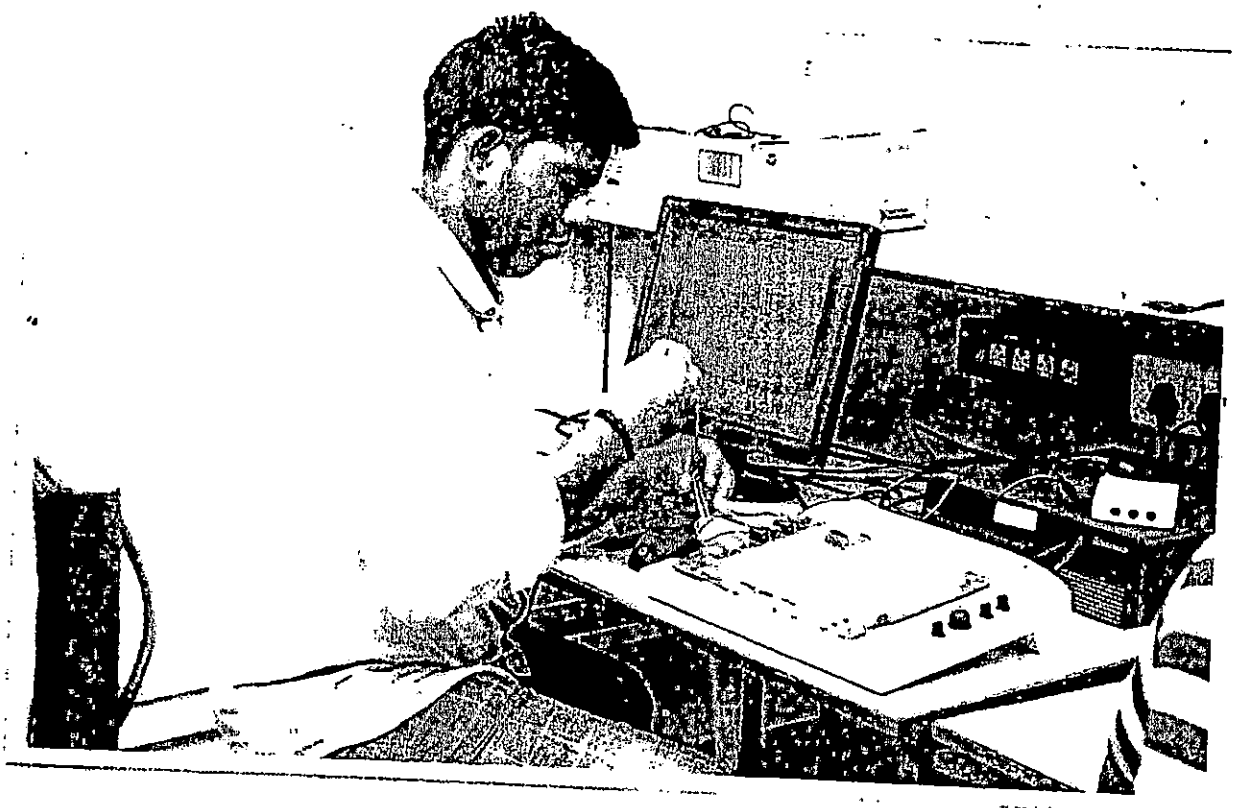

Central Instrumentation Centre (CIC)
VIGNAN'S
H Block Rd, Vadlamudi, Andhra Pradesh 522213, India
Latitude
16.2320108°
Longitude
80.5487022°
Local 02:20:08 PM
GMT 08:50:08 AM
Altitude 51.5 meters
Saturday, 03-13-2021

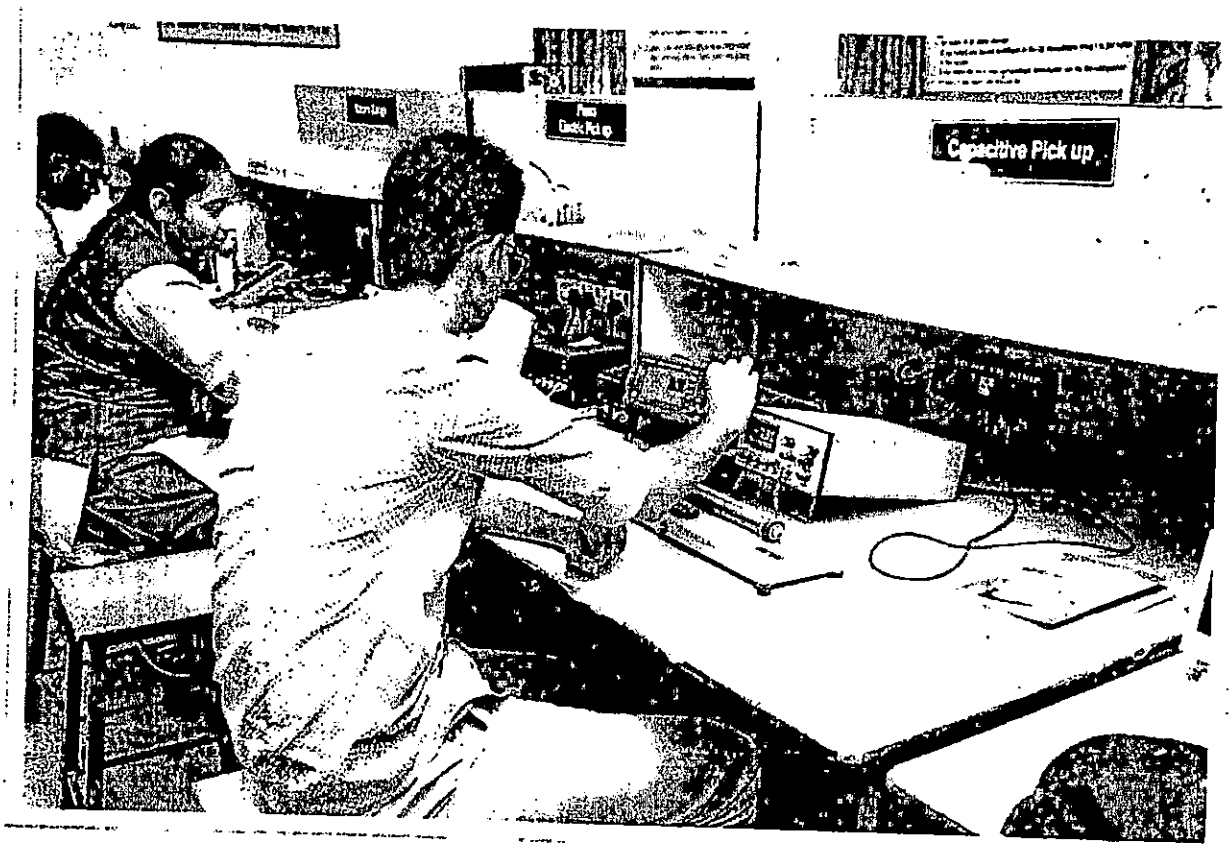
Gallery:

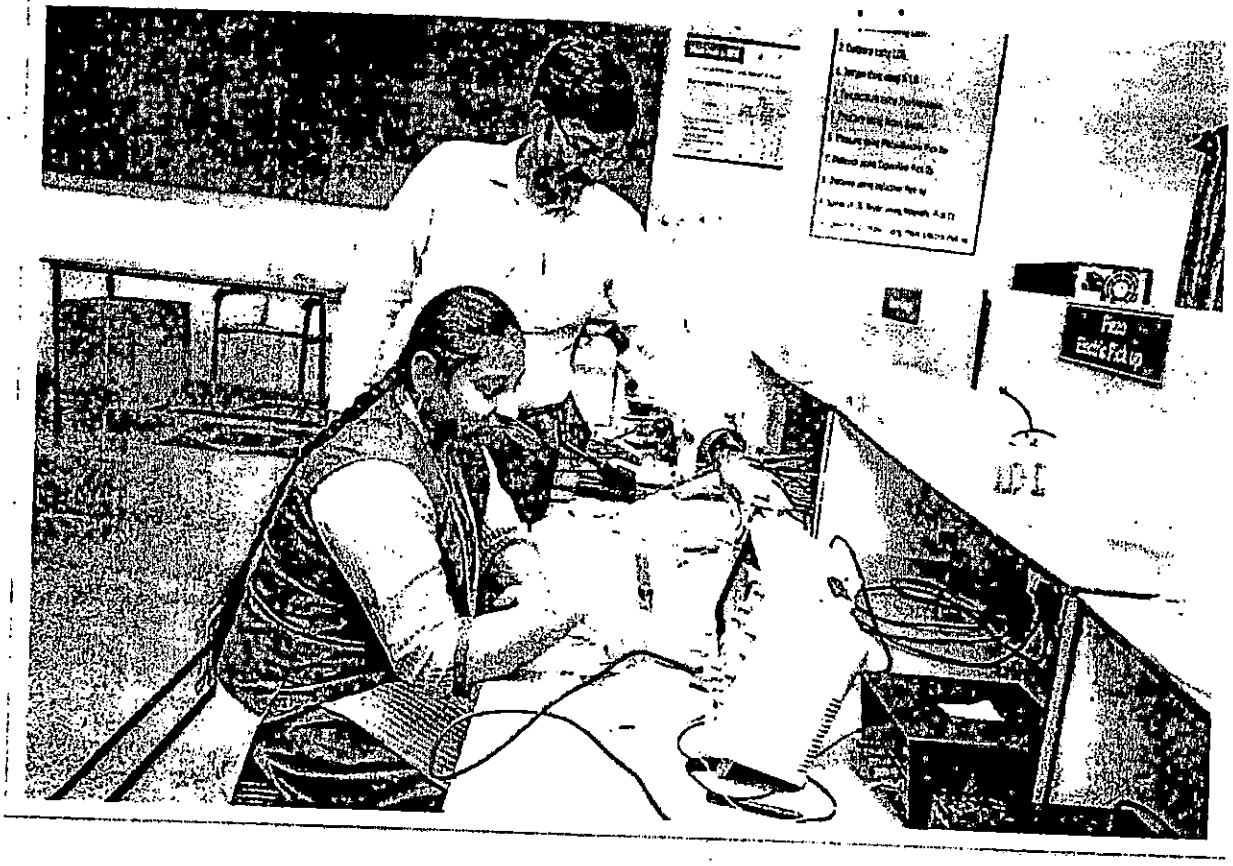









Collective Pick up



Location

https://www.google.com/maps/place/Central+Instrumentation+Center,+VFSTR/@16.2319437,80.5465704,17z/data=!3m1!4b1!4m5!3m4!1s0x3a4a0908c9b2261d:0xf8000635869656 1d!8m2!3d16.2319437!4d80.5487591?hl=en-IN

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

(ACCREDITED BY NAAC WITH 'A' GRADE)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

7th Sep, 2021

Central Instrumentation Centre (CIC)- Outcomes

1. 54 Intra Disciplinary projects (IDP) done by II, III & IV B Tech as part of their course.
2. 46 final year projects have been executed by the students in the last five years
3. Students have completed **200** projects that were displayed at various project expos
4. Designed and successfully implemented electronic control unit for Tree climbing robot project.
5. A patent has been granted for the **"A Novel Climbing Mechanism for Coconut Tree"** with patent number "2021102306" by IP Australia
6. Patent published with title **'AUTOMATIC EYE BLINK DETECTOR USING NI MYRIO'**, Dr.N USHARANI & Mr. Jhon William Carey Medithe.

Name of the few projects done in Central Instrumentation Center

- Smart City using IoT
- Tree climbing robot for coconut harvesting
- Polyhouse farming using IoT
- Smart water governing system
- Fire Fighting robot
- Advanced railway crossing system
- Automatic food dispensing system
- Smart home lighting
- Floor cleaning robot
- Smart helmet
- Health Monitoring Systems
- Line Following Robot
- Voice controlled Robot
- Hydraulic Wheel Chair

A PROJECT REPORT

ON

"COCONUT HARVESTING ROBOT"

SUBMITTED IN THE COMPLETE FULFILLMENT OF THE REQUIRMENT FOR THE DEGREE OF BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEEERING

SUBMITTED BY

U.VINAY KUMAR (161FA05348)

P.N.S.M.T.SWAROOP (161FA05367)

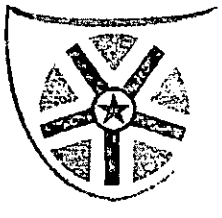
UNDER THE GUIDANCE

OF

Dr. G.N.V.R.VIKRAM

ASSISTANT PROFESSOR

DEPT OF ECE



VIGNAN'S

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

2016-2020

DECLARATION

I hereby declare that the internship work entitled TREE CLIMBING ROBOTis being submitted to Vignan's Foundation for Science, Technology and Research (Deemed to be University) in partial fulfillment for the award of B.Tech degree in Electronics and Communication Engineering. The work was originally designed and executed by us under the guidance of Dr G N V R Vikram at Department of Electronics and Communication Engineering, Vignan's Foundation for Science Technology and Research (Deemed to be University) and was not a duplication of work done by someone else. We hold the responsibility of the originality of the work incorporated into this thesis.

Signature of the candidate

U Vinay kumar(161FA05348)

P N S M T SWAROOP(161FA05367)

SP/YO/2019/1052(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Mehrauli Road
New Delhi 110016
Dated. 25.02.2020

ORDER

Sub:-**Financial assistance for the project titled "Design and Development of Coconut Harvesting Robot" under the guidance of Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.**

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs.23,16,666/- (Rupees Twenty Three Lakh Sixteen Thousand Six Hundred Sixty Six only)** for a duration of three years. The detailed breakup of the grant for General & Capital Components are given below:-

General Component	:	Rs.21,95,166/-
Capital Assets	:	Rs.1,21,500/-
TOTAL	:	**Rs.23,16,666/-**

2. The sanction of the President is also accorded to the release of **Rs.8,36,822/- (Rupees Eight Lakh Thirty Six Thousand Eight Hundred Twenty Two only)** being the first instalment of grant under "General Component" for implementation of the above mentioned project. The item of expenditure for which the total allocation of **Rs.23,16,666/-** has been approved for a period of 36 months are given below:

Sl.No	Budget Head	1st year	2nd year	3rd year	Total
A	**Non-recurring**				
1.	Equipment	101500	20000	0	121500
	Sub-total (A)	**101500**	**20000**	**0**	**121500**
B	**Recurring**				
1.	Manpower : JRF-1 @ Rs. 31,000/- +16%HRA	431520	431520	431520	1294560
2.	Consumables	200000	75000	75000	350000
3.	Travel	50000	50000	50000	150000
4.	Demo/training programme/Testing	20000	10000	10000	40000
5.	Contingency/Other cost	50000	50000	50000	150000
6.	Overhead 10%	85302	63652	61652	210606
	Sub-total (B)	**8,36,822/-**	**6,80,172/-**	**6,78,172/-**	**21,95,166/-**
	Grand total (A+B)	**9,38,322/-**	**7,00,172/-**	**6,78,672/-**	**23,16,666/-**

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/ final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

12. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is dubitable to Demand No.86, Department of Science & Technology for the year 2019-20:

3425	: Other Scientific Research (Major Head)
60	: Others
60.200	: Assistance to Other Scientific Bodes (Minor Head)
70	: Innovation, Technology Development and Deployment
70.00.31	: Grants-in-aid General for the year 2019-20 (Plan)
***(Previous**	: SSP-SEED-3425.60.200.08.11.31)

14. The amount **Rs.8,36,822/- (Rupees Eight Lakh Thirty Six Thousand Eight Hundred Twenty Two only)** will be drawn by the Drawing and Disbursing Officer DST and will be disbursed to Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	**Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh**
Saving Account Number	**21890200000006**
Name of Bank	UCO Bank
RTGS/IFS Code	UCBA0002189
MICR Code	520028104

15. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 13 in the register of grants maintained in the Division for the scheme **(Scheme for Young Scientist and Technologists).**

This issues with [illegible]
[illegible]/3764/IFD/2019-20 [illegible]

[illegible] Aay.[illegible] [illegible] AP/221770153762.

(Dr. Rashmi Sharma) 21/12/2020
Scientist-'E'
011-26590541

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

1. Copy for information and necessary action to:-
2. Cash Section (3 copies) for making the payment to the grantee.
3. Account Section.
4. Director of Audit, (Scientific Deptt), AGCR Building, New Delhi – 110 002.
5. Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
6. Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
7. Head (SEED)
8. Sanction Folder

(Dr. Rashmi Sharma) 25/4/2022
Scientist-'E'
011-26590541

7. "The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalisation of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilisation Certificate for considering subsequent release of Grant/Closure of Project accounts."

8. As per rule of GFR 2017, it is mandatory for the grantee organization to purchase the equipment/consumables through the Government e-marketplace (GeM), to the extant availability there as the project involves Government funding.

9. DST reserves sole rights on the assets out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST

10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 226(1) of General Financial Rules 2017.

11. Due acknowledgment of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is debitable to Demand No 85, Department of Science & Technology for the year 2019-20.

3425 : Other Scientific Research (Major Head)
60 : Others
60.200 : Assistance to Other Scientific Bodes (Minor Head)
70 : Innovation, Technology Development and Deployment
70.00.35 : Grants for Creation of Capital Assets for the year 2019-20 (Plan)
*(**Previous** :SSP-SEED-3425.60.200.08.11.35)

14. The amount **Rs. 1,01,500/- (Rupees One Lakh One Thousand Five Hundred only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh. The bank details for electronic transfer of funds through RTGS are given below:-

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Saving Account Number	**21890200000006**
Name of Bank	**UCO Bank**
RTGS/IFS Code	**UCBA0002189**
MICR Code	**520028104**

15. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 19 in the register of grants maintained in the Division for the scheme **(Scheme for Young Scientist and Technologists).**

Gmail SIVAJI SATRASUPALLI <sivaji.ganesh1100@gmail.com>

Fwd: Australian Innovation Patent (Our Ref:V2125)

1 message

Vikram G N V R <gnvrvikram@gmail.com> Tue, Mar 2, 2021 at 4:00 PM
To: Sivaji VFSTR <sivaji.ganesh1100@gmail.com>

---------- Forwarded message ---------
From: **Ravikumar Mandava** <rm19@iitbbs.ac.in>
Date: Tue, Mar 2, 2021 at 11:26 AM
Subject: Fwd: Australian Innovation Patent (Our Ref:V2125)
To: <gnvrvikram@gmail.com>

--------- Forwarded message ---------
From: **Neha Kapur** <patentprojects@ideas2ipr.com>
Date: Wed, Feb 24, 2021 at 11:34 AM
Subject: Re: Australian Innovation Patent (Our Ref:V2125)
To: Ravikumar Mandava <rm19@iitbbs.ac.in>

Dear Sir,
Thanks for the payment.
You will receive the invoice shortly.

On Wed, Feb 24, 2021 at 11:20 AM Ravikumar Mandava <rm19@iitbbs.ac.in> wrote:
> Dear Neha,
> Here I am attaching my patent report and fee receipt.
> Please find the attachment.
>
> Thanks & Regards
> Dr. Ravi Kumar Mandava
>
> On Mon, Feb 22, 2021 at 6:10 PM Neha Kapur <patentprojects@ideas2ipr.com> wrote:
> > Dear Sir,
> > As per the telephonic conversation, please find below details regarding next steps.
> > The entire process will cost you 25,000/- in all with no other charges and you will get the grant in just 3 months.
> > In case, we are unable to get you the grant, we will reimburse the amount taken from your end.
> >
> > Next Action:
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> > Please transfer the advance amount of 10,000/- to start preparing your draft, which takes 12-13 working days, once the final draft is ready, we will share the same with you for review.
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> > Please find attached modes of payment.
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> > On Tue, Feb 16, 2021 at 2:37 PM Neha Kapur <patentprojects@ideas2ipr.com> wrote:
> > > Dear Sir,
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> > > Meanwhile, if you need any assistance please feel free to contact me.
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> > > Hoping to hear from you soon.
> > >
> > > On Wed, Feb 10, 2021 at 5:31 PM Neha Kapur <patentprojects@ideas2ipr.com> wrote:
> > > > Dear Sir,
> > > > As per the telephonic conversation.
> > > > We have noted your comments.
> > > > We do understand that you would be taking 10 days more that means till 20th February to proceed with the process further.
> > > > Whenever you are ready, please let us know.
> > > >
> > > > We will be happy to assist you.
> > > >
> > > > On Fri, Feb 5, 2021 at 4:28 PM Neha Kapur <patentprojects@ideas2ipr.com> wrote:

	description, prior art details of the patents will be provided in the draft	
Review	Applicant will review the innovation patent draft and provide his/her comments	1-2 days
Filing	Our team will file the innovation patent and provide filing receipt to the applicant	1-2 days
Review by Patent office	The Australian patent office will review the application, and may issue objection report and offer an opportunity to the applicant to comply with the objections	1-2 months from filing date
Acceptance	Once the formalities are completed, the Australian Innovation Patent is issued and published in the Journal of Australian patent office	1-2 months from filing date

Next Action:
Please share your research paper and manuscript in word format for the internal review.

Also, share your contact details for easy communication and you can contact us directly on 9205818518 for any further queries or clarifications.
We will be happy to assist you.

We look forward to hearing from you.

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Dear Madam,
May I know what is the processing charge.

On Mon, Jan 25, 2021 at 1:01 PM Monika <monika@filemypatent.co.in> wrote:
Hi Ravi Kumar Mandava,

I am writing herein with reference to your innovative work entitled **An adaptive PID control algorithm for the two-legged robot walking on a slope**. As you are in the research field, we have approached to assist you in filing an Australian Innovation Patent for your research.

An innovation patent is different from the standard patent and is suitable for an invention with a short market life that might be superseded by newer innovations. The innovation patent is a relatively quick and inexpensive way to obtain protection for your new device, substance, method or process.

Term: Australian innovation patent lasts up to eight years.

Steps to Obtain the Australian innovation Patent:

Review of the Disclosure	Patent Attorney will review the disclosure and we will let you know the eligibility for the innovation patent	1-2 days
Preparation of Draft	An application will be drafted in accordance with the requirements of the patent act and claims, description, prior art details of the patents will be provided in the draft	5-6 days
Review	Applicant will review the innovation patent draft and provide his/her comments	1-2 days
Filing	Our team will file the innovation patent and provide filing receipt to the applicant	1-2 days
Review by Patent	The Australian patent office will review the	1-2 months

On behalf of
Rajat Malhotra
Ideas2ipr – Intellectual Property Consultants | INDIA
Office: 91 989 101 6781
E: mail@ideas2ipr.com | Web: www.ideas2ipr.com

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Best Regards,
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A Novel ClimbingMechanism for Coconut Trees

Authors: [1]Ravi Kumar Mandava, [2]Nanduri NarayanaRao, [3]G. N. V. R. Vikram

[1]Maulana Azad National Institute of Technology Bhopal, India.

[2,3]Vignan's Foundation for Science, Technology and Research, Guntur, India

Day by day, the usage of coconuts is increasing enormously in daily life. There are several problems that happened in the harvesting process due to height and trunk surface of the tree. It requires skilled labor to climb the long trees which becomes difficult and risk to the workers. Moreover, the harvesting of coconuts plays a very important role in agriculture and also a time takingprocess. It also plays as main role in the economy of many developing countries. Traditionally, this job is taken up by the socially and economically backward people in India. It also a risky job in which an accident might be fatal in some cases. It is also found that the people who engage in this job for several years faced issues related to their skin, foot and health problems. Also, as the new generation is becomingmore conscious about the social status, only a very few people select coconut harvesting as their career. So coconut harvesting is turned to be a big challenge in the agricultural field. Alternatives are to be identified to harvest the coconuts since the cutting process is difficult and risky. Up to now, researchers have developed various mechanisms for climbing the coconut trees but still it is operated by human beings. But, in the present research work, robots are proposed to replace human workers to eliminate the difficulties and risk and also reduce the time. It is proposed to design, develop and fabricate a novel tree climbing robot suitable for different kinds of coconut tree structures.

Researchers have developed different types of mechanisms and found various difficulties in the harvesting of coconuts. It may due the reason, tree cross sectional area may vary from one tree to another tree and it may vary the trunk diameter from top to bottom of the same tree. Moreover, the height of the tree is also another problem which plays an important role in control. Likewise, there are many problems that have to be considered while designing such a system. To overcome these problems proper communication channels have to be chosen for controlling the robot. In the present proposal the authors are planning to design, develop and fabricate the coconut harvesting robot which is a novel mechanism and fully automated and it does not require any human labor expect to control the robot from the ground. Figure 1 shows the climbing mechanism developed by the authors using model Creo (Modeling software). In this mechanism consists of one upper and one lower frame and the joining between these two frames using four

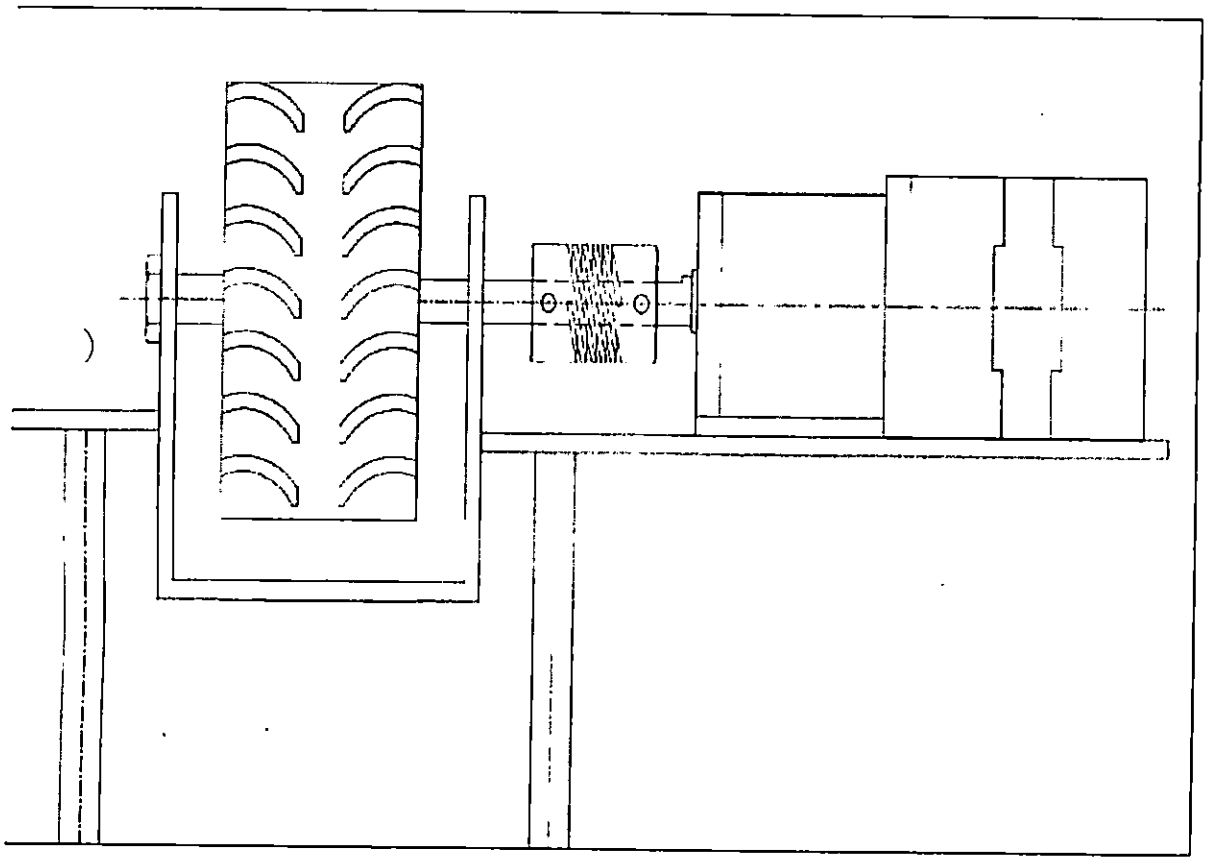

Fig.2 Wheel and motor arrangement.

Fig.5 Real time testing

Dr. NVRVikramG

Your IMPS fund transfer request posted successfully

Transaction Reference Number IMPS0[illegible]153256440

Debit Account No.	Account Type	Branch	Amount (INR)	Purpose
00000020031183919	[illegible]	[illegible]	[illegible]	[illegible]

Dr. NVR Vikram G.

Gmail SIVAJI SATRASUPALLI <sivaji.ganesh1100@gmail.com>

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An innovation patent is different from the standard patent and is suitable for an invention with a short market life that might be superseded by newer innovations. The innovation patent is a relatively quick and inexpensive way to obtain protection for your new device, substance, method or process.

Term: Australian innovation patent lasts up to eight years.

Steps to Obtain the Australian innovation Patent:

STAGES	BRIEF DESCRIPTION	TIMELINES
Review of the Disclosure	Patent Attorney will review the disclosure and we will let you know the eligibility for the innovation patent	1-2 days
Preparation of Draft	An application will be drafted in accordance with the requirements of the patent act and claims, description, prior art details of the patents will be provided in the draft	5-6 days
Review	Applicant will review the innovation patent draft and provide his/her comments	1-2 days
Filing	Our team will file the innovation patent and provide filing receipt to the applicant	1-2 days
Review by Patent	The Australian patent office will review the	1-2 months

office	application, and may issue objection report and offer an opportunity to the applicant to comply with the objections	from filing date
Acceptance	Once the formalities are completed, the Australian Innovation Patent is issued and published in the Journal of Australian patent office	1-2 months from filing date

We are a team of patent attorney which assist innovators who burn the midnight oil to do research, experiment and arrive at innovation or a conclusion in building patent portfolio. A mere publication of the innovation in a journal limits their opportunities window of successful commercialization of the innovations.

We can assist you in obtaining patent protection in USA, Australia, China, India, Japan, Europe, Malaysia and other countries.

To know more in detail about the pricing and further next steps, please reach to me at monika@filemypatent.co.in

I look forward to hearing from you.

Best Regards,
Monika
IP Executive

Mobile: +91 99994 97833 | +91 99102 22350
Email: **monika@filemypatent.co.in**
Web: **www.filemypatent.co.in**

--
Best Regards,
Neha Kapur

On behalf of
Rajat Malhotra
Ideas2ipr – Intellectual Property Consultants | INDIA
Office: 91 989 101 6781
E: mail@ideas2ipr.com | Web: www.ideas2ipr.com

--
Best Regards,
Neha Kapur

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Neha Kapur

On behalf of
Rajat Malhotra
Ideas2ipr – Intellectual Property Consultants | INDIA
Office: 91 989 101 6781
E: mail@ideas2ipr.com | Web:

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SP/YO/2019/1052(G)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Mehrauli Road
New Delhi-110016
Dated: 25.02.2020

ORDER

Sub:-**Financial assistance for the project titled "Design and Development of Coconut Harvesting Robot" under the guidance of Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.**

Sanction of the President is hereby accorded to the approval of the above mentioned project at a total cost of **Rs.23,16,666/- (Rupees Twenty Three Lakh Sixteen Thousand Six Hundred Sixty Six only)** for a duration of three years. The detailed breakup of the grant for General & Capital Components are given below:-

General Component	:	Rs.21,95,166/-
Capital Assets	:	Rs.1,21,500/-
TOTAL	:	**Rs.23,16,666/-**

2. The sanction of the President is also accorded to the release of **Rs.8,36,822/- (Rupees Eight Lakh Thirty Six Thousand Eight Hundred Twenty Two only)** being the first installment of grant under "General Component" for implementation of the above mentioned project. The item of expenditure for which the total allocation of **Rs.23,16,666/-** has been approved for a period of 36 months are given below:

Sl.No	Budget Head	1st year	2nd year	3rd year	Total
A	**Non-recurring**				
1.	Equipment	101500	20000	0	121500
	Sub-total (A)	**101500**	**20000**	**0**	**121500**
B	**Recurring**				
1.	Manpower JRF-1 @ Rs. 31,000/- +16% HRA	431520	431520	431520	1294560
2.	Consumables	200000	75000	75000	350000
3.	Travel	50000	50000	50000	150000
4	Demo/training programme/Testing	20000	10000	10000	40000
5	Contingency/Other cost	50000	50000	50000	150000
6.	Overhead 10%	85302	63652	61652	210606
	Sub-total (B)	**8,36,822/-**	**6,80,172/-**	**6,78,172/-**	**21,95,166/-**
	Grand total (A+B)	**9,38,322/-**	**7,00,172/-**	**6,78,672/-**	**23,16,666/-**

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/ final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE&UC has to be furnished for the released Capital head grant.

6. The grant-in-aid being released is subject to the condition that

(a) a transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
(b) While submitting Utilization Certificate & Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

7. "The grantee organization will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalization of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilization Certificate for considering subsequent release of Grant/ Closure of Project accounts".

8. "Grantee Institute should also follow Rule 230 (17) of GFR, 2017 concerning reservation of SC/ST/OBC, if applicable."

9. As per rule of GFR 2017, it is mandatory for the grantee organization to purchase the equipment through the Government e-marketplace (GeM), to the extant availability there as the project involves Government funding.

10. Grantee organization is to adhere to the instructions of the Department of Expenditure guidelines for the travel budget head.

9. (a) DST reserves sole rights on the assets out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

(b). DST reserves rights to close the project activity any time based on the review of progress of the project.
(c). A prior intimation to DST by grantee is must before leaving the country for attending conference/availing any short term fellowship abroad during the project tenure.

10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

11. Due acknowledgment of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications / media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

25/02/2021

12. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is dubitable to Demand No.86, Department of Science & Technology for the year 2019-20:

3425	: Other Scientific Research (Major Head)
60	: Others
60.200	: Assistance to Other Scientific Bodes (Minor Head)
70	: Innovation, Technology Development and Deployment
70.00.31	: Grants-in-aid General for the year 2019-20 (Plan)
*(**Previous**	: SSP-SEED-3425.60.200.08.11.31)

14. The amount **Rs.8,36,822/- (Rupees Eight Lakh Thirty Six Thousand Eight Hundred Twenty Two only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	**Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh**
Saving Account Number	**21890200000006**
Name of Bank	**UCO Bank**
RTGS/IFS Code	**UCBA0002189**
MICR Code	**520028104**

15. As per Rule 234 of GFR 2017, this sanction has been entered at S. No. 11 in the register of grants maintained in the Division for the scheme **(Scheme for Young Scientist and Technologists).**

16. This issues with the concurrence of IFD Vide their Concurrence Dy. No. **C/5764/IFD/2019-20** Dated 24.02.2020.

17. Niti Aayog Darpan Portal I.D. for the institute is **AP/2017/0153762.**

(Dr. Rashmi Sharma)
Scientist-'E'
011-26590541

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

1. Copy for information and necessary action to:-
2. Cash Section (3 copies) for making the payment to the grantee.
3. Account Section.
4. Director of Audit, (Scientific Deptt), AGCR Building, New Delhi – 110 002.
5. Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
6. Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
7. Head (SEED)
8. Sanction Folder

25/2/2020

(Dr. Rashmi Sharma)
Scientist-'E'
011-26590541

SP/YO/2019/1052(C)
Government of India
Ministry of Science & Technology
Department of Science & Technology
(SEED Division)

Technology Bhavan,
New Mehrauli Road
New Delhi-110016
Dated:25.02.2020

ORDER

Sub:-**Financial assistance for the project titled "Design and Development of Coconut Harvesting Robot" under the guidance of Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.**

With reference to the Sanction Order No. **SP/YO/2019/1052 (G)** dated 25.02.2020, sanction of the President is accorded for the sanctioning of **Rs.1,21,500/- (Rupees One Lakh Twenty One Thousand Five Hundred only)** under the 'Grant for creation of capital assets' in the above mentioned project.

2. Sanction of the President is also accorded for the release of **Rs. 1,01,500/- (Rupees One Lakh One Thousand Five Hundred only)** the project. The details of which is as given under:-

Non-recurring (Capital Items)

Sl.No	EQUIPMENT DETAILS	1st Year	2nd year	Total
1.	Laptop	81500	0	81500
2.	Camera-02.Nos	20000	20000	40000
	Total	**101500**	**20000**	**121500**

3. This sanction is subject to the condition that the grantee organization will furnish to the Department of Science & Technology, financial year wise Utilization Certificate (UC) in the proforma prescribed as per GFR 2017 and audited statement of expenditure (SE) along with up to date progress report at the end of each financial year duly reflecting the interest earned/ accrued on the grants received under the project. This is also subject to the condition of submission of the final statement of expenditure, utilization certificate and project completion report within one year from the scheduled date of completion of the project.

4. The grantee organization will have to enter & upload the Utilization Certificate in the PFMS portal besides sending it in physical form to this Division. The subsequent/ final installment will be released only after confirmation of the acceptance of the UC by the Division and entry of previous Utilization Certificate in the PFMS.

5. If the grant has been released under capital head through separate sanction order under the same project for purchase of equipment(s), separate SE&UC has to be furnished for the released Capital head grant.

6. The grant-in-aid being released is subject to the condition that

(a) a transparent procurement procedure in line with the Provision of General Financial Rules 2017 will be followed by the Institute/Organization under the appropriate rules of the grantee organization while procuring capital assets sanctioned for the above mentioned project and a certificate to this effect will be submitted by the Grantee organization immediately on receipt of the grant.
(b) While submitting Utilization Certificate & Statement of Expenditure, the organization has to ensure submission of supporting documentary evidences with regard to purchase of equipment/capital assets as per the provisions of GFR 2017. Subsequent release of grants under the project shall be considered only on receipt of the said documents.

25/2/2020

7. "The grantee organisation will maintain separate audited account for the project and the entire amount of grant will be kept in an interest bearing account. For Grants released during F.Y. 2017-18 and onwards, all interests and other earnings against released Grant shall be remitted to Consolidated Fund of India (through Non-Tax Receipt Portal (NTRP), i.e. www.bharatkosh.gov.in), immediately after finalisation of accounts, as it shall not be adjusted towards future release of Grant. A certificate to this effect shall have to be submitted along with Statement of Expenditure / Utilisation Certificate for considering subsequent release of Grant/Closure of Project accounts."

8. As per rule of GFR 2017, it is mandatory for the grantee organization to purchase the equipment/consumables through the Government e-marketplace (GeM), to the extant availability there as the project involves Government funding.

9. DST reserves sole rights on the assets out of grants. Assets acquired wholly or substantially out of government grants (except those declared as obsolete and unserviceable or condemned in accordance with the procedure laid down in GFR 2017), shall not be disposed of without obtaining the prior approval of DST.

10. The account of the grantee organization shall be open to inspection by the sanctioning authority and audit (both by C & AG of India and Internal Audit by the Principal Accounts Office of the DST), whenever the organization is called upon to do so, as laid down under Rule 236(1) of General Financial Rules 2017.

11. Due acknowledgment of technical support / financial assistance resulting from this project grant should mandatorily be highlighted by the grantee organization in bold letters in all publications/media releases as well as in the opening paragraphs of their Annual Reports during and after the completion of the project.

12. Failure to comply with the terms and condition of the Bond will entail full refund with interest in terms of Rule 231 (2) of GFR 2017.

13. The expenditure involved is dubitable to Demand No.86, Department of Science & Technology for the year 2019-20:

3425	:	Other Scientific Research (Major Head)
60	:	Others
60.200	:	Assistance to Other Scientific Bodes (Minor Head)
70	:	Innovation, Technology Development and Deployment
70.00.35	:	Grants for Creation of Capital Assets for the year 2019-20 (Plan)

*(**Previous** :SSP-SEED-3425.60.200.08.11.35)

14. The amount **Rs. 1,01,500/- (Rupees One Lakh One Thousand Five Hundred only)** will be drawn by the Drawing and Disbursing Officer, DST and will be disbursed to the Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh. The bank details for electronic transfer of funds through RTGS are given below:-

Institution Account Name	**Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh**
Saving Account Number	**21890200000006**
Name of Bank	**UCO Bank**
RTGS/IFS Code	**UCBA0002189**
MICR Code	**520028104**

15. As per Rule 234 of GFR 2017, this sanction has been entered at S. No.[19] in the register of grants maintained in the Division for the scheme **(Scheme for Young Scientist and Technologists).**

25/02/2020

16. This issues with the concurrence of IFD Vide their Concurrence Dy. No. **C/5765/IFD/2019-20** Dated 24.02.2020.

17. Niti Aayog Darpan Portal I.D. for the institute is **AP/2017/0153762**.

(Dr. Rashmi Sharma) 25/2/20
Scientist-'E'
011-26590541

To
The Pay and Accounts Officer,
Department of Science & Technology,
New Delhi.

1. Copy for information and necessary action to :-
2. Cash Section (3 copies) for making the payment to the grantee.
3. Account Section.
4. Director of Audit, (Scientific Deptt), AGCR Building, New Delhi – 110 002.
5. Registrar, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
6. Dr. Ravi Kumar Mandava, Assistant Professor, Vignan's Foundation for Science, Technology and Research (VFSTR), Vadlamudi, Guntur-522213, Andhra Pradesh.
7. Head (SEED)
8. Sanction Folder

(Dr. Rashmi Sharma) 25/2/2020
Scientist-'E'
011-26590541

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/04/2016

(21) Application No.201641012928 A
(43) Publication Date : 29/04/2016

(54) Title of the invention : AUTOMATIC EYE BLINK DETECTOR USING NI MYRIO

(51) International classification	:A61B3/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)USHA RANI NELAKUDITI**
(32) Priority Date	:NA	Address of Applicant :DEPARTMENT OF ECE, VIGNAN'S
(33) Name of priority country	:NA	UNIVERSITY, VADLAMUDI - 522 213, GUNTUR DIST,
(86) International Application No	:NA	Andhra Pradesh India
Filing Date	:NA	**2)JOHN WILLIAM CAREY MEDITHE**
(87) International Publication No	: NA	(72)**Name of Inventor :**
(61) Patent of Addition to Application Number	:NA	**1)USHA RANI NELAKUDITI**
Filing Date	:NA	**2)JOHN WILLIAM CAREY MEDITHE**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The detection of eye blink plays a vital role in various applications of brain computer interface. The eye acts as a dipole consisting of cornea and retina, wherein the cornea is much more positive than the retina providing typically around fewer microvolts to around 100mv between them. When the eyelid slides over an eye it acquires potential of an eye. This potential varies with various factors like light intensity, nature of blinking. This potential can be acquired using electrodes positioned near to the ocular region, which is connected to bio signal amplifier and filters for signal processing. The developed signal is connected as analog input to the Mini System Port(MSP) of connector C in NI my RIO i.e. AI0/AI1. This has to be powered with external power supply and interfaced to a computer with USB. Fig.1

No. of Pages : 14 No. of Claims : 10

VIGNAN'S UNIVERSITY

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

7/1/2017

Batch No	Regd No	Name of the Student	Name of the guide	Area of work	Signature of the Student
2	121FA05086	MALLU YASHWANTH	Mr. Ashok Kumar Reddy	Embedded	ARDUINO BASED GSM CONTROLLED INSPECTION ROBOT
	131FA05174	**GUDURU KODANDA RAMAIAH**			
	131FA05140	KUKATLAPALLI LAKSHMI TEJA			

HoD ECE

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be University)
-Estd. u/s 3 of UGC Act 1956
(ACCREDITED BY NAAC WITH 'A' GRADE)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LIST OF PROJECT BATCHES with GUIDE NAMES and TITLES Dt: 8-01-2017

S. No	Batch No	Names	Guide Name	Area	Title
1	B1	141FA05158 141FA05042 141FA05178	MR. T. PITCHAIH	System View	Modelling and Simulation of Pulse Doppler Radar system
2	B2	141FA05131 151LA05006 141FA05066	MS. S. MRUDULA	VLSI	Decimal full adder specially designed for quantum Dot cellular automata
3	B3	141FA05114 151LA05007 141FA05153	DR.B.S.RAMANJANEYULU	Cognitive radio	Channel accessing in cognitive Radio
4	B4	141FA05047 151LA05003 141FA05129	DR. JINO RAMSON	Wireless Sensor networks	Implementation Of Automated Meter Reading System using wireless sensor networks
5	B5	141FA05143 141FA05177 151LA05004	DR. EBENEZER DANIEL	Image Processing	Fog removal camera system for vehicles
6	B6	141FA05184 141FA05167 141FA05098	MR. M. SIVA SRINIVASA RAO	Embedded Systems	Internet controlled robotic surveillance cum pick and place rover system
7	B7	141FA05130 141FA05040	MRS. K. ANAPURNA	Cognitive radio	Spectrum Sharing with QoS in Cognitive radio

		141FA05075			
8	B8	141FA05094 141FA05049 141FA05125	MR. P.KRISHNA CHAITANYA	Radars	Aurduino based radar system
9	B9	141FA05145 141FA05059 141FA05058	MR. S. VISHNU	IOT	Implementation of IOT based push Notification system using ARDUINO-Firebase
11	B11	141FA05030 141FA05084 141FA05111	MR. SAMBASIVA RAO	Embedded Systems	Analysing Health conditions of the patients in Hospitals
12	B12	141FA05122 141fa05188 141fa05190	MR. K. ASHOK KUMAR REDDY	Embedded Systems	War field Spying Robot with Night vision Wireless camera by Android Applications

VIGNAN'S
(Deemed to be University)

B.TECH, ELECTRONICS AND COMMUNICATION ENGINEERING				
PROJECT BATCHES			IV YEAR - II SEMESTER, C SECTION 22-12-2018	
S.No.	Batch No.	REGD.NO	Project Title	Name of the Supervisor
8	Batch-4	161LA05001	SMART HOME	Mr. M.Krishna Chenna Kesava Rao & Mr. Sanjeeth Kumar
9		161LA05014		
10		151FA05253		
11	Batch-5	151FA05199	IoT based smart security and Home automation system using node MCU	Mr. Satish Kanapala & Mr. Chetan Kamble
12		151FA05227		
13		161LA05016		
14		151FA05099		
18	Batch-7	151FA05294	WAR FIELD SPYING ROBOT WITH CAMERA	Mr. V. Vijaya Raghavan & Mr. M. Senthil Sivakumar
19		151FA05250		
20		161LA05015		
24	Batch-9	151FA05256	GESTURE CONTROLLED WEEL CHAIR USING AURDINO	Dr. M. Pachiyannan & Mr. M. Shekar
25		151FA05240		
26		151FA05215		
30	Batch-11	151FA05242	REMOTE ECG MONITORING SYSTEM BY USING IoT	Mr. S. Vishnu & Mr. Sunil Rathore
31		151FA05296		
32		151FA05333		
33	Batch-12	151FA05319	IOT BASED GAS LEVEL MONITORING USING NODE MCU	Mr. K. Ashok Kumar Reddy & Mrs. M. Lavanya
34		151FA05335		
35		151FA05224		

VIGNAN'S
(Deemed to be University)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A.Y : 2020-2021, IV - Year, Semester - II

PROJECT BATCH ALLOCATION

Cluster : Cyber Physical Systems (Embedded Systems)

Batch No	Reg. No	Name of the Student	Section	Guide	Title of the Project
CPS - 1	171FA05242	MANDALAPU SAI KRISHNA	F	Dr.Sk.Jakeer Hussain	DESIGN OF AUTOMATION IN AGRICULTURE WITH IOT
	171FA05311	NADELLA DHAVAN	C		
	171FA05299	KOTI SANDEEP	A		
CPS - 2	171FA05334	SRIRANGA SRIVATHSAV AKULA	C	Dr.Sk.Jakeer Hussain	POLITICAL KNOWLEDGE MACHINE
	171FA05304	MAMILLA MUKESH	B		
	171FA05284	DOPPALAPPUDI NAGA VENKATA PRAVEEN SAI	C		
CPS - 3	171FA05137	VEERAVALLI SUSMITHA	C	Dr.N.V.R.Vikram G	GESTURE BASED CONTROLLER FOR COCONUT HARVESTING ROBOT
	171FA05133	UPPALAPATI PRANEETH CHOWDARY	C		
	171FA05079	DANDE VENKATA SAI AKHIL	B		
CPS - 4	171FA05333	SREE BHAVANI PURETI	C	Dr.N.V.R.Vikram G	DEVELOPMENT OF DAQ FOR TEMPERATURE DEPENDENT FOUR PROBE RESISTIVITY MEASUREMENT SYSTEM
	171FA05318	NISSANKARA RAO SAI SUMANTH	C		
	181LA05004	YERNENI HASWANTH	C		
CPS - 5	171FA05192	PUSAPATI AKSHAYA	A	Mr. G S. R. Satyanarayana	Automatic Detection and Notification of Potholes and Humps on Roads to Aid Drivers
	171FA05263	SIDDAMSETTY BALAJI	F		
	171FA05240	LINGIREDDY SIVA SANKAR REDDY	A		
CPS - 6	171FA05171	KROTHA NAVYA SAI LAKSHMI	D	Mr. G S. R. Satyanarayana	Smart Helmet
	171FA05290	GUDURU PRASANNA LAKSHMI	D		
	171FA05295	KASARABADA TIRUMALA KISHAN BABU	B		
CPS - 7	171FA05286	GARIGAPATI KAVYA	E	Mr. S. Vishnu	IOT BASED REAL TIME WATER QUALITY MONITORING SYSTEM WITH AUTOMATIC PUMP CONTROL
	171FA05339	VARIKUTI AHALYA	D		
	171FA05313	NAKKA SANTHOSH BHARGAV REDDY	C		
CPS - 8	171FA05183	NANDIGAM BRAHMANI	C	Mr. S. Vishnu	IOT BASED HOLTER MONITORING SYSTEM
	171FA05187	PARAMATHMUNI VENKATA NAGA SAI PAVAN	C		
	171FA05120	SEKHARA MAHANTHI MOHIT SAI	C		
CPS - 9	171FA05082	DYVALA MANASA	F	Dr Y. Ravi Sekhar	IOT BASED WATER QUALITY MONITORING SYSTEM
	171FA05340	VELAGA SRI HARIKA CHOWDARY	C		
	171FA05298	KOSARAJU SHIVA RAMA KRISHNA	C		
CPS - 10	171FA05300	KUSUMA MANOBHAGYA	E	Dr T Pitchaiah	DESIGN AND IMPLEMENTATION OF HEALTH MONITORING SYSTEM USING RASPBERRY PI
	171FA05360	KATARU MADHUMITHA	F		
	171FA05039	MUTYALA AKHIL	E		
CPS - 11	171FA05217	CHEEMALADINNE VENKATA SOWMYA	B	Mr K. Lova Raju	IoT-CLOUD ENABLED LOW COST SMART IRRIGATION SYSTEM
	171FA05231	JAMPANA DEVI VASUNDHARA	D		
	171FA05122	SHAIK NAZMA	B		
CPS - 12	171FA05375	SUTARIYA KISHANKUMAR		Mr K. Lova Raju	IoT-AgriMeas Measurement Index For Smart Agriculture Monitoring System Using Internet of Things
	171FA05207	SURYADEVARA VENKATA NAGA SAI PRAVEEN	A		
CPS - 13	171FA05376	NIKHITA PULIVARTHI	B	Ms. G. Ramya Sri	IOT BASED THREE LAYER AUTHENTICATION
	171FA05243	MARRI SAI JAGADEESH	B		
	171FA05225	GANGISETTY SANTOSH VARDHAN	B		

CPS - 14	171FA05236	KOLISETTY LAKSHMI SUPRIYA	C	Ms. G. Ramya Sri	DESIGN AND IMPLEMENTATION OF IOT BASED ENERGY MONITORING SYSTEM WITH DATA ACQUISITION
	171FA05238	KUSUMA RICKY MUNNA	C		
	171FA05032	KOMMI VENKATA SAI JESWANTH	C		
CPS - 15	171FA05049	PATHAN INTIYAZ	D	Mr. S. Sivaji	Wireless notice board using GSM and Arduino
	171FA05344	YALAMANCHILI PUJITHA	F		
	171FA05099	M CHANDRA SEKHARA MAHARSHI	D		
CPS - 16	171FA05066	VOGGE SHUSHMASRI	C	Mr. S. Sivaji	HOME AUTOMATION
	171FA05009	CHEKKA NITYA SAI	B		
	171FA05097	LAKSHMI BHARATHI GANNAMANI	E		
CPS - 17	171FA05083	G VENKATA NAGA SAI HARSHA VARDHAN	D	Mr. K. Satish	RELIABLE AND COST EFFECTIVE AUTOMATIC STREET LIGHTS MONITORING USING IOT
	171FA05065	VINTHA NAGA VENKATA CHANDRASEKHAR	E		
	171FA05167	K. REVANTH REDDY	E		
CPS - 18	171FA05142	BELLAMKONDA POOJITHA	D	Mr. K. Satish	IoT BASED WOMEN SECURITY SYSTEM
	171FA05387	YERUVA AKHIL KUMAR REDDY			
CPS - 19	171FA05303	MACHIRAJU SAI RAM DHARMA TEJA	E	Mr. Lakshmi Srinivas	HEALTHCARE DATA PROTECTION BASED ON BLOCKCHAIN
	171FA05326	RACHAPUDI SRINIVAS KRISHNA CHAITANYA	A		
	171FA05317	NIDIGANTI VIJAY	A		
	171FA05293	K. Ganesh	C		
CPS - 20	171FA05203	U Divya Lakshmi	B	Mr Lakshmi Srinivas	Raspberry Pi Based Face Recognition System for Door Lock
	171FA05325	PUTTA JAGADEESH	E		
	171FA05057	SONTINENI SAI BHARGAV	E		
CPS - 21	171FA05036	MELAPU MANMOHAN	D	Dr. Subhasish Tiwari	WIRELESS TECHNOLOGIES FOR SMART AGRICULTURAL MONITORING USING IOT DEVICES
	171FA05381	SHAIK NAZIM ALI	F		
	171FA05035	MANUKONDA VENKATA AVINASH	C		
	171FA05042	NETI SRI PRANAVA SAI	F		
CPS - 22	171FA05306	MEDIBOYINA CHANDANA SAI LAKSHMI		Mr.Ashish Kumar Thakur	VOICE CONTROLLED CAR WITH OBSTACLE DETECTION AND DISTANCE MEASUREMENT
	181LA05003	NAMBURI NARENDRAGOPI	F		
	171FA05193	RACHARLA VISHAL	B		
CPS - 23	171FA05214	BHAVANAM KEERTHI REDDY	B	Mr. M. Sekhar	DESIGN OF SURVEILLANCE ROBOT
	171FA05229	GRANDHE YAMINI SUPRAJA	F		
	171FA05014	DASARI TEJA SAI	B		
	151FA0529(	KOLSANI NUTHANHEMANTH			
CPS - 24	171FA05254	PULLAKHANDAM PADMAJA	B	Mr. M Sekhar	SMART TRAFFIC SIGNAL MONITORING SYSTEM USING IMAGE PROCESSING
	171FA05135	VAJRALA INDU PRIYA	D		
	171FA05272	VELIVELA VENKATA SATISH KUMAR	A		
CPS - 25	171FA05130	THOTA VENKATA PRIYANKA	E	Mr.Ashish Kumar Thakur	IOT BASED APP CONTROLLED HOME AUTOMATION
	171FA05077	CHIRUMAMILLA SAI TEJASWINI	B		
	171FA05074	CHAMARTHI MANI RAM KRISHNA	A		
	171FA05132	TULLURI NAGA SAI ALEKYA	B		
CPS-26	171FA05177	M sivasaimanikanta	F	Mr M Sekhar	IOT-BASED COVID-19 INDOOR SAFTY MONITORING SYSTEM
	171fa05249	Venkatagopi Nadendla	D		
	171FA05176	M Susan Priya	B		
	171FA05276	Yalaga Ravikiran	B		
CPS-27	171FA05246	M sunandini	F	Dr N V.R. Vikram G	Secure Home Entry with Face Recognition and Notification via Telegram
	171FA05221	D Navya	F		
	171fa05372	sateja valagala	B		
CPS-28	171FA05244	M Srujitha	C	Dr Sk. Jakeer Hussain	BLOCK-CHAIN BASED E-VOTING SYSTEM WITH ACESS CONTROL
	171FA05158	L Varshitha	D		
	171FA05105	M Nausheen	F		
	171FA05207	V Hanka	B		
CPS-29	171FA05380	Lavu Rakesh	E	Ms Ramya Sri	IOT BASED REAL TIME DATA ACQUISITION USING MQTT PROTOCOL
	171FA05119	T Satya Prakash	E		
	171FA05312	N Siva deepthi	E		
CPS-30	171FA05270	T Teja Sree	B	Dr N V R Vikram G	VISUAL FEEDBACK SYSTEM FOR COCONUT HARVESTING ROBOT ARM
	171FA05146	Ch.Bala Bhavani	C		

Project Coordinators

VIGNAN'S
(Deemed to be University)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
A.Y (2019-20) IV-II SEM - PROJECT BATCHES

S.No.	Batch No	Reg. No.	Name	Title
1	1	161FA05062	Vadlamudi Chandrani	Radio Frequency Identification (RFID) Based Authenticated Electronic Voting Machine
2		161FA05330	Pithani Teja Sree	
3		161FA05118	Popuri Mounika	
4		161FA05112	Nelakurthi Jagadeesh Naidu	
5	2	161FA05092	Isireddy Love Reddy	Iot Security by Using Mqtt
6		161FA05332	Pulivuri Saraswathi	
7		161FA05263	Rathamsetti Charan Sai	
8		161FA05082	Chundi Sai Karthik	
9	3	161FA05341	Shaik Mohammad Khasim	Smart Water Governing System For Industries & Households
10		161FA05402	Avula Naveen	
11		161FA05230	G Puneeth Reddy	
12	4	161FA05159	Inala Venkatesh	Design of Temperature Controller For Four Probe Resistivty Measurement System
13		161FA05302	Jagarlamudi Sumanth	
14		161FA05366	Peram Hari Krishna	
15		161FA05409	Bandlamudi Nandan Sai	

A.Y (2019-20) IV-II SEM - PROJECT BATCHES

1	1	161FA05348	U. Vinay Kumar	COCONUT HARVESTING ROBOT
2		161FA05367	P.N.S.M. Teja Swaroop	

VIGNAN'S UNIVERSITY

Department of Electronics & Communication Engineering

Intra Disciplinary Projects

II B.Tech - I Semester : Sec - A **Dt : 5-06-2020**

Subject:IDP

Batch No	Regd. No	Title
Batch-1	191FA05040	LED FLASHER
	201LA05008	
	191FA05045	
Batch-2	191FA05037	SIMPLE TWO WAY INTERCOM CIRCUIT
	191FA05062	
	201LA05001	
Batch-3	191FA05012	THERMISTOR TEMPERATURE SENSING ALARM
	191FA05001	
	191FA05053	
Batch-4	191FA05054	RAIN ALARM
	191FA05057	
	191FA05068	
Batch-5	191FA05011	BIKE TURNING SIGNAL INDICATOR
	191FA05043	
	191FA05021	
Batch-6	191FA05028	PIANO USING 555 TIMER IC
	191FA05029	
	191FA05046	
Batch-7	191FA05034	PANIC ALARM CIRCUIT USING 555 TIMER IC
	191FA05041	
	191FA05061	
Batch-8	191FA05052	BATTERY LEVEL INDICATOR
	191FA05024	
	191FA05044	
Batch-9	191FA05010	SOFT START CIRCUIT FOR POWER SUPLY
	191FA05018	
	191FA05004	
Batch-10	191FA05030	SINGLE TRANSISTOR AUDIO MIXER CIRCUIT
	191FA05033	
	191FA05015	
Batch-11	191FA05025	BATTERY CHARGER USING SCR
	191FA05064	
	191FA05067	

Batch-12	191FA05017 191FA05055 191FA05036	WIRE BREAK ALARM SYSTEM
Batch-13	191FA05038 191FA05065 191FA05006	MOBILE DETECTOR CIRCUIT
Batch-14	191FA05005 191FA05049 191FA05070	AUTOMATIC STREET LIGHT USING LDR
Batch-15	191FA05019 191FA05031 191FA05007	WATER LEVEL INDICATOR
Batch-16	191FA05009 191FA05035	TOUCH SENSOR
Batch-17	191FA05060 191FA05013 191FA05027	MOBILE ADAPTER
Batch-18	191FA05042 191FA05002 191FA05039	ELECTRONIC MOSQUITO REPELLANT

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Intra Disciplinary Projects

II B.Tech - I Semester : Sec - B **Dt : 5-06-2020**

Batch No.	REGD.NO.	Title Of The Project
1	191FA05080	Simple Automatic Plant Watering Circuit For Monitoring Soil Moisture
	191FA05103	
	191FA05117	
2	191FA05075	Electronic Mosquito Repellent Circuit
	191FA05090	
	191FA05104	
3	191FA05110	Audio Amplifier Using MOSFET
	191FA05119	
	191FA05127	
4	191FA05073	Pulse Detector
	191FA05114	
	191FA05140	
5	191FA05074	SWITCH DEBOUNCER CIRCUIT
	191FA05105	
	191FA05125	
6	191FA05085	Object Detector Using IR Sensor
	191FA05123	
	191FA05137	
7	191FA05122	Simple Two Way Intercom Circuit Batch
	191FA05134	
	191FA05139	
8	191FA05077	Automatic Street Light Controller
	191FA05091	
	191FA05113	
9	191FA05099	Cockpit Warning Light
	191FA05107	
	191FA05138	
10	191FA05081	Pulse Width Modulating Using 555 Timer IC
	191FA05094	
	191FA05132	
11	191FA05089	Audio Mixer Using Single Transistor
	191FA05093	
	191FA05133	

12	191FA05079	Fire Alarm Project
	191FA05092	
	191FA05129	
13	191FA05106	Analysis Of a Speech Signal
	191FA05115	
	191FA05120	
14	191FA05102	Cell Phone Detector
	191FA05130	
	191FA05131	
15	191FA05072	Break Failure Indicator Alarm
	191FA05082	
	191FA05101	
16	191FA05071	Water Level Indicator Alarm With Buzzer
	191FA05098	
	191FA05111	
17	191FA05087	Adaptor Without Transformer
	191FA05097	
	191FA05118	
18	191FA05088	Battery Level Indicator
	191FA05108	
	191FA05116	
19	191FA05076	Panic Alarm Based On 555 IC Timer
	191FA05124	

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Department of Electronics & Communication Engineering

IDP BATCH WISE TITLES

II B.Tech - I Semester : Sec - c Dt : 5-06-2020

Subject: IDP

Batch No	Regd. No	Title
Batch-1	191FA05159	Bike Turning Signal Circuit
	191FA05160	
	191FA05144	
Batch-2	191FA05184	PIANO using 555 Timer
	191FA05162	
	191FA05203	
Batch-3	191FA05206	Cell phone Detector
	191FA05185	
	191FA05181	
Batch-4	191FA05200	Transistor based security system
	191FA05176	
	191FA05180	
Batch-5	191FA05192	Electronic eye controlled security
	191FA05146	
	191FA05163	
Batch-6	191FA05201	Touch Sensor
	191FA05174	
	191FA05170	
	20LA05007	
Batch-7	191FA05202	Moisture soil Detector
	191FA05195	
	191FA05186	
Batch-8	191FA05148	Mosquito repellent
	191FA05154	
	191FA05210	
Batch-9	191FA05157	Water level indicator
	191FA05141	
	191FA05210	
Batch-10	191FA05172	Fire alarm
	191FA05145	
	191FA05191	
Batch-11	191FA05165	LED Flipflop using transistor
	191FA05168	
	191FA05182	

Batch-12	191FA05197	Smoke detector
	191FA05207	
	191FA05198	
Batch-13	191FA05151	Cell phone Detector
	191FA05193	
	191FA05167	
Batch-14	191FA05189	Heartbeat sensor
	191FA05152	
	191FA05175	
Batch-15	191FA05156	LASER security system
	191FA05187	
	191FA05155	
Batch-16	191FA05196	Electronic mail letter
	191FA05205	
	191FA05208	
Batch-17	191FA05169	Street light using LDR
	191FA05179	
	191FA05173	
Batch-18	191FA05156	Solar LED road marker
	191FA05190	
	191FA05199	
Batch-19	191FA05183	Police siren using 555 timer
	191FA05178	
	191FA05177	

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Department of ECE

Department of Electronics & Communication Engineering

Intra Disciplinary Projects

II B.Tech - I Semester : Sec - D **Dt : 5-06-2020**

S.NO	Batch No	Reg.No	Title of Project
1	1	191FA05222	Visitors Counter
2		191FA05223	
3		191FA05260	
4	2	191FA05262	Audio Amplification using Li-Fi
5		191FA05268	
6		191FA0LA04	
7	3	191FA05213	Bike Turning Signals
8		191FA05216	
9		191FA05251	
10	4	191FA05236	Automatic Water Pump Switch
11		191FA05231	
12		191FA05273	
13	5	191FA05218	Mobile Jammer
14		191FA05220	
15		191FA05250	
16	6	191FA05272	Wireless AC Voltage Detector
17		191FA05253	
18		191FA05227	
19	7	191FA05219	Opto Reflective Sensor
20		191FA05221	
21		191FA05241	
22	8	191FA05246	Water Level Display LED
23		191FA05245	
24		191FA05217	
25	9	191FA05240	Remote Control Switch
26		191FA05229	
27		191FA05266	
28	10	191FA05243	Clap Switch
29		191FA05275	
30		191FA05276	
31	11	191FA05238	Automatic Sanitizer
32		191FA0LA02	
33		191FA05249	
34	12	191FA05258	Two Way Intercom
35		191FA05264	
36		191FA05274	

37	13	191FA05267	Digital Stop Watch
38		191FA05248	
39		191FA05270	
40	14	191FA05273	Reverse Car Parking Sensor
41		191FA0LA05	
42		191FA0LA06	
43	15	191FA05263	Water Level Indicator
44		191FA05234	
45		191FA05232	
46	16	191FA05239	Pressure Cooker Whistle Counter
47		191FA05269	
48		191FA05230	
49	17	191fFA05244	Alcohol Level Tests
50		191FA05242	
51		191FA05252	
52	18	191FA05215	Automatic Light Fence Circuit with Alarm
53		191FA05247	
54		191FA05259	
55	19	191FA05265	Thermister Sensing Alarm
56		191FA05254	
57		191FA018228	

FORM - 2

THE PATENTS ACT, 1970

(39 OF 1970)

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(Section 10; rule 13)

Automatic Eye Blink Detector using NI myRIO

APPLICANT NAME: 1)USHA RANI NELAKUDITI

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The following specification particularly describes the invention and the manner in which it is to be performed:

Field of the invention

The present invention generally relates to the field of bio medical engineering and more specifically to the control of devices by the blink of the eye and its potential.

Background of the invention

There is research being performed to utilize the potential that is generated when the eyelid moves over the eye during the blink process for the control of the solid state devices through the brain eye coordination. When the eyelid moves over the eye as a result of the eye blink as a factor of high light intensity or dryness or moistness, the potential accumulated in the ocular region varies correspondingly which can be harnessed for the eye brain coordination of the device control.

An analysis of the prior art documents disclose that in an attempt to correlate a physiologic signal with brain coordination, Ulrika Svensson explored the use of the electrooculogram (EOG) in her thesis at the University of Linkoping. In general, the EOG comprises a record of the standing voltage of the retina, the layers of cells at the back of the eye that conduct vision processing. The EOG is correlated with eyeball movement and obtained by electrodes placed on the skin above and below, or left and right of, the eye. In Svensson's system, the use of two sensors complicate blink monitors processing through the addition of noise. Further, because Svensson employs primitive curve fit-, threshold- type algorithms for detection, the system has difficulty accommodating motion artifact or a large range of EOG morphologies.

But the present invention provides a simple and accurate system for the detection, capture, amplification, filtering and comparison of the eye potential for the brain eye coordination and for the application of the various real time utilities.

Summary of the Invention

The detection of eye blink plays a vital role in various applications of brain computer interface. The eye acts as a dipole consisting of the cornea and retina, wherein the cornea is much more positive than the retina providing typically around microvolts to 100mv between them. When the eyelid slides over an eye it acquires potential of an eye. This potential varies with various factors like light intensity, nature of blinking. This potential can be acquired using electrodes positioned near to the ocular region, which is connected to bio signal amplifier and filters for signal processing. The electrodes are kept near or around the ocular region for collecting and acquiring the potential of fewer micro volts to milli volts from the eye region. The amplifier amplifies the differential voltage between the active electrodes positioned in and around the ocular region and the reference electrode positioned on the lower region of the ear for further processing.The developed signal is connected as analog input to the Mini System Port(MSP) of connector C in NI my RIO i.e, AI0/AI1. This has to be powered with external power supply and interfaced to a computer with USB.

Object of the Invention

It is a primary object of the present invention to effectively utilize the potential generated by the eyelid movement over the eye during the blink process for the brain and external device interface applications.

It is another object of the present invention to collect the potential accumulated in the eye through the position of the plurality of electrodes in the ocular region for the collection of the few microvolts to 100mV.

It is also an object of the present invention to amplify the said potential by the bio amplifiers for the utilization in the brain and external device interface applications.

ABSTRACT

The detection of eye blink plays a vital role in various applications of brain computer interface. The eye acts as a dipole consisting of the cornea and retina, wherein the cornea is much more positive than the retina providing typically around fewer microvolts to around 100mv between them. When the eyelid slides over an eye it acquires potential of an eye. This potential varies with various factors like light intensity, nature of blinking. This potential can be acquired using electrodes positioned near to the ocular region, which is connected to bio signal amplifier and filters for signal processing. The developed signal is connected as analog input to the Mini System Port(MSP) of connector C in NI my RIO i.e, AI0/AI1. This has to be powered with external power supply and interfaced to a computer with USB.

Fig.1

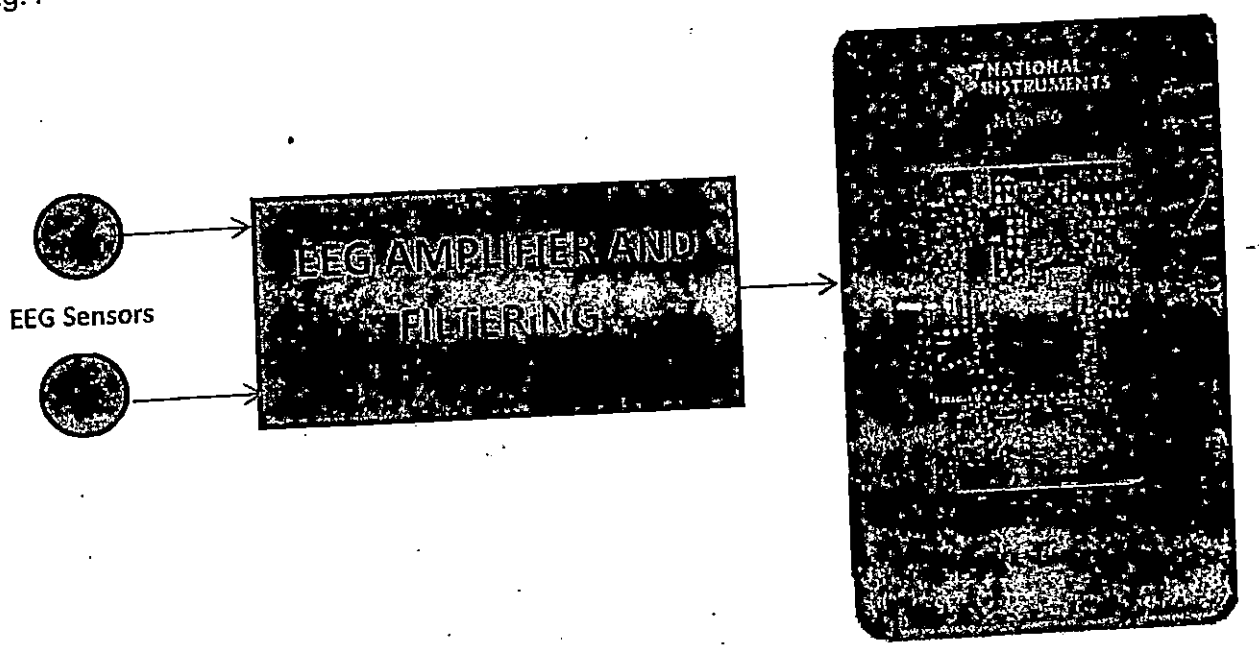

Fig.1 illustrates the schematic view of the system for the detection of the eyelimovement and eye blink for the brain computer interface.

Fig.2

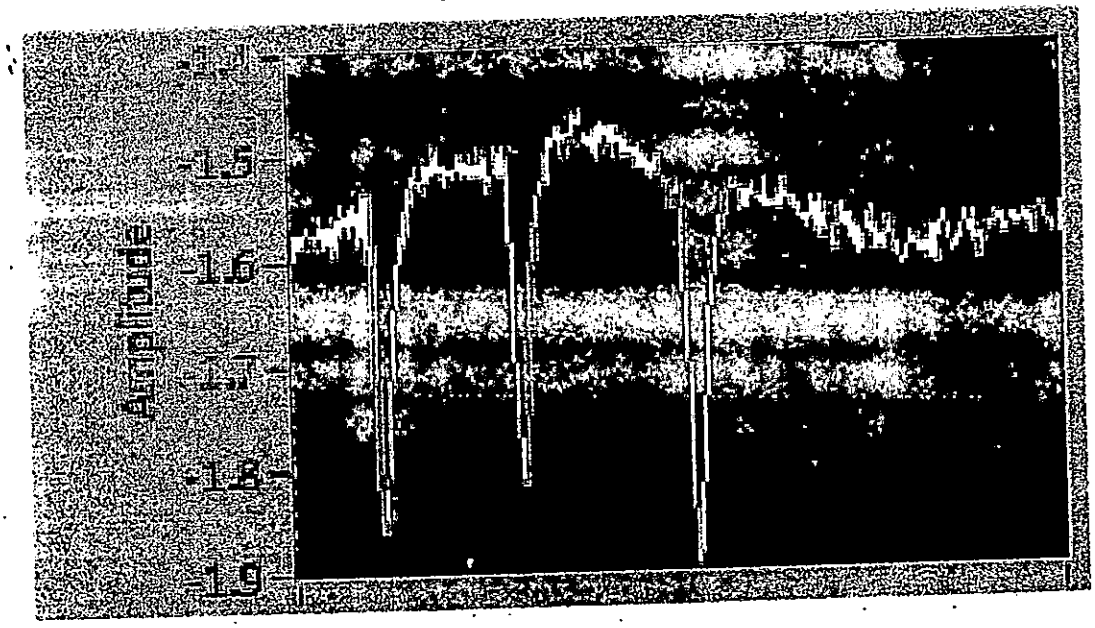

Fig.2 Illustrates the schematic view of the blink episode.

International Journal of Computer Science and Business Informatics

Semi-Automated Polyhouse Cultivation Using LabVIEW

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Vadlamudi, Andhra Pradesh, India

ABSTRACT
The optimum solution for polyhouse maintenance with minimum hardware and human effort is developed. By using this proposed model the temperature inside the polyhouse can be measured and controlled. For measuring the temperature inside the polyhouse LM35 sensor is used. And for maintaining constant temperature inside the polyhouse cooling fan is used. By using national instruments ELVIS-II board these hardware components are interfaced. The overall implementation is done with the help of LabVIEW programming. The proposed model provides the cost effective solution and has the advantage of easy installation. This model operates on the given threshold value of temperature. Whenever the temperature increases beyond the programmed value the cooling fan will starts working to lower the temperature without any further manual instruction. By provision of this automatic cooling function the human effort can be reduced to a maximum extent and cultivation can be performed in a fruitful way by providing optimum conditions for the growth of the plants. For this proposed model the threshold value temperature is taken as 35°C. The status of the environmental conditions inside polyhouse can be observed in the computer with the help of LabVIEW. The GUI provided by LabVIEW shows the value of temperature and its conditional parameters and status of cooling fan.

Keywords
DAQ, ELVIS II, LabVIEW, LM35, Polyhouse cultivation, Sensor.

1. INTRODUCTION
By using polythene sheets polyhouses are constructed to provide secured and controlled environment for the proper growth of the plant. As the plants grow in a controlled environment inside a polyhouse gives the advantage of high yield irrespective of environmental changes,climatic changes and also location. Also it provides suitable environment for the growth of the plant and protect the plants growing inside the polyhouse from abnormal weather conditions and from different plant diseases. The required environment for plants growth and increased productivity can be met by adopting polyhouse cultivation method. The automation of polyhouse is crucial for controlled the environment inside the polyhouse. For the proper growth of the plant and for high yield of production, the monitoring and controlling of different climatic parameters need to be maintained continuously. Few of the parameters that can be monitored and controlled are temperature, humidity,

2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)

The State of Art of Internet of Things for Smart City Research Issues

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Abstract - **In today, Smart cities are the contemporary urban IoT vision that are necessary for the people to maintain a sustainable standard of living. The violent increase in demand of smart city and Internet of Things had laid a foundation for many scientific and technological challenges exclusively for the improvement of reliable and efficient smart city that includes IoT. It is the hypothetical view of grouping distinct technologies to achieve smart and sustainable practices. The necessity of smart cities is to provide a livable infrastructure for the citizens, and offer requisite and progressive services. The most diagnostic claiming of the smart city is to provide a comfortable climate by improving advancement technologies and to address the troubles within a comprehensive and innovation –led world. Our proposed system will provide economic and efficient solution for the implementation of smart city which also provides the reliability and sustainability which enhances the way of living.**

Index Terms – Smart Cities, Internet of Things, Reliability, Sustainability.

I. INTRODUCTION

Internet of things is a network of interrelated connection between nodes through internet. Those nodes may be computing devices, mechanical and digital machines etc. that are provided with sensors, unique identifiers, with various protocols and which will have capability of inter communication among themselves without human-computer interaction [1]. It is estimated that there will be 21 billion IoT devices by 2025. This clearly indicates enormous advancements in IoT technology and its potential applications. IOT is paving a very good path for production and life in future. Among various applications of IoT, majority of them are interrelated to energy and environment specifically sustainable cities (smart city) [2]. Sustainable city which uses smart systems to that makes regular life of people comfortable and convenient and that city will have the ability to utilize all its resources properly in order to perform its specified operations which are assigned. Smart city uses various technologies such as smart waste management for managing the waste generated from a city ,Smart car parking system for proper parking maintenance of vehicles , smart street lights for the efficient use of energy, accident prevention system to prevent accidents of vehicles likewise smart fire detection system, smart gardening etc.

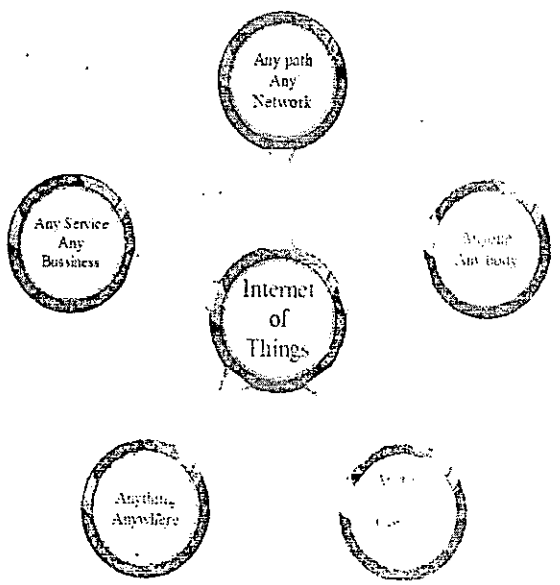

Fig.1. Definition of IoT

In all these technologies we use various sensors which will continuously measures and monitor various aspects and provide data at any point of time as per our requirement along with alarming facility at the time of emergency [3] or problem. For the entire system of smart city, sensors play a crucial role for its implementation without any flaws.

TABLE I. USAGE OF VARIOUS SENSORS

Name of the Sensor	Specifications	Application
Soil moisture sensor (FC-28)	Input voltage:3.3-5v Output voltage:0-4.2v Input current:35mA Output signal: both analog and digital	Smart gardening
Humidity sensor	Operating voltage:3.3 or 5v DC Measurement range: 20-95%RH,0-50 Resolution: 8 bit(temperature),8 bit(humidity)	Smart gardening
LDR module	Operating voltage:3.3-5v dc Operating current:15 mA Output digital:0-5v Output analog:0-5v based on light falling on LDR	Smart street lights

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2020 5th International Conference on Devices, Circuits and Systems (ICDCS)

IoT and Cloud hinged Smart Irrigation System for Urban and Rural Farmers employing MQTT Protocol

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2020 5th International Conference on Devices, Circuits and Systems (ICDCS) 978-1-7281-6368-0/20/$31.00 ©2 IEEE 10.1109/ICDCS48716.2020.243551

***Abstract*—A rapid change in the technologies can be seen in the fields of sensing, monitoring, communicating and actuating applications due to the evolution and development in the Internet of Things. Making use of this development in the era of polluted environment and evaporating agriculture, we designed a system to monitor the state of soil with sensors connected to Node MCU by analyzing and predicting the data with the help of the WEKA tool by using Raspberry Pi 3 as a broker for MQTT protocol. The key pay off of this system is to avoid human tampering with a low-cost design using IoT and MQTT to get Volumetric Water Content (VWC) in the soil. It is with the hope that this research can provide the current modernity in IoT for the most sophisticated research improvements.**

Keywords—sensors, internet of things, volumetric water content, raspberry pi 3, thingspeak cloud

I. INTRODUCTION

Agriculture is the main source of food in almost all countries [1] in the world. All these countries are still relying on labor work who doesn't know about the usage of specific pesticides for a specific crop. The hardest part to accept here is that labor is unaware of the amount of water to be used in a specific season. Here is the place where IoT acts as a kernel in watering the fields with the help of various sensors and antiquate data. With this, we can raise agricultural growth in the country gently. The communication between the IoT devices should be done by an IP address [2]. Nowadays, the world is associated with the internet around 5 billion objects. Almost 50 billion things or objects are connected to the web or internet in the year 2020. Fig. 1 illustrates the characteristics of IoT as shown below.

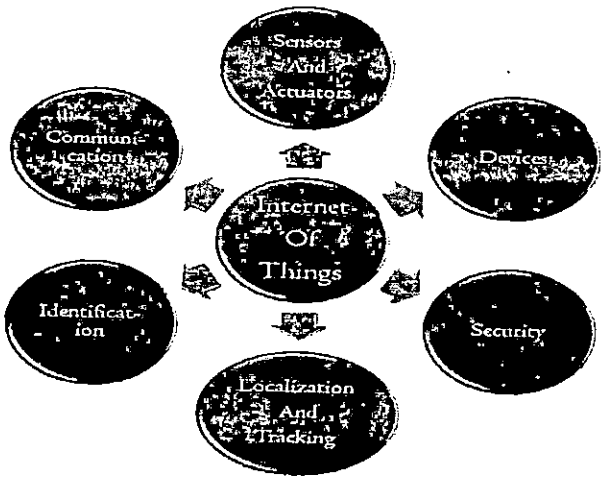

Fig. 1 Characteristics of IoT

II. RELATED WORKS

Vani et al. [4] have proposed in monitoring and measurement of agricultural parameters is vital in developing agriculture. The paper describes the design and development of the system for monitoring and measurement of soil moisture using the Android system and IoT Cloud and also the sensors for detection, Wi-Fi router for connection and a launchpad. The real-time data regarding the agriculture field is recorded by using Cloud technology and the Blynk app. The farmers can observe the field data anywhere and respond quickly depending upon the soil moisture. Rajeswari et al. [5] have explained to increase the better crop order and predict the crop yield based on the past crop order in the identical agriculture farm with the soil nutrients information (N, P, K) for the sustainable smart agriculture field. By keeping soil with health intact for minimizing the cost of fertilizer needs and improving crop production. Hence the expenses of agricultural products are controlled, and the farmers can access notifications in the form of current schemes for agriculture through mobile phones. Mekala et al. [6] have proposed Cloud computing with IoT technology. Li-Fi, when compared to Wi-Fi, provides good efficiency, security, and bandwidth. This paper describes two performance tasks like smart warehouse management which includes temperature and humidity maintenances. Warehouse management involves theft detection, spraying, weeding, animal, bird scaring, keeping vigilance, moisture sensing and so on. These activities are the remote-controlled process. Ali et al. [7] proposed a new Green IoT for real-time applications and economical based Precision Agriculture Monitoring System (PAMS) which is having less power consumption, less Green House Gas (GHG) emissions, and to help the farmers with an adaptable alliance. To monitor the changes in the parameters with their farms constantly from all over and anytime using their smartphones. Raikar et al. [8] proposed the amalgamation of Cloud computing (Cc) and the Internet of Things (IoT) for providing the finest solution to smart applications. With the help of wireless Sensor Networks (WSNs) and Raspberry Pi 3 are treated as one of the most essential peripherals in IoT and established a novel route of mature in the field of agriculture area. The increase in the performance of a smart irrigation system makes use of lightweight protocol like Message Queuing Telemetry Transport ((MQTT)) is to maintain effectively and protect the connection between the device/sensors and the users. Jino Ramson et al. [9] Explained on Sensor Networks based Water Quality Monitoring Systems for Intensive Fish Culture -A Review. This review describes the water quality monitoring in the all-inclusive fish culture concerns fostering fish in farms,

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2019 Innovations in Power and Advanced Computing Technologies. (i-PACT)

IoT Based Dust bin Monitoring System Using Node MCU

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Vignan's Foundation for Science Technology & Research, Guntur, Andhra Pradesh, India .

Abstract- **These days it is being quite common to see that large portions of the detritus over the roadside, also in many localities, dustbins are not being cleaned in appropriate time. It results as creation of an unhygienic condition and expansive number of creepy crawlies and mosquitoes. The traditional procedure following these days is time taking and requires high human effort which is not anywhere comparable to present day innovations in any scenario . To overcome this issue, an undertaking called IOT based garbage monitoring system is proposed. The theme of this project is to portray savvy dustbins in view of arduino, ultrasonic sensor, Node MCU, Flame sensor and water level indicator which are interfaced with the mobile application through web server to put on a brilliant dustbin which will quantify the status of the dustbin. This system screens the trash canisters and educates about the level of waste gathered in the junk containers. This will likewise send status of bins to waste accumulation vehicles.**

Keywords: **Internet of Things, Node MCU, Ultrasonic Sensor, Flame Sensor, Water level indicator.**

I. INTRODUCTION

IOT, the internet of things means connecting the devices to the physical outside world with the functionality of ON and OFF switch with the help of Internet. This includes every Technology today from cell phones to wristbands and even every household things from TV's to washing machine. Objects in the physical world are provided with an IP address which helps to connect different objects like sensors etc.

IOT is the sunrise technology in the today's world. Till today there are more than 12 billion connected devices and there is a probability that the connectivity will increase to 50 Billion [1]-[4] till the end of 2020 this helps people to reduce their burden work. IOT is everywhere in the markets in even retail shops for monitoring and for the security. IOT changes our lifestyle and environmental growth with the healthy and effective manner.

This article is about the immediate cleaning of dustbin. Dustbin is the minimum basic need for every human [5] being and for the society it plays a vital role for the cleaning environment so it must be cleaned from time to time when it is full. In this project ultrasonic sensor and other sensors are placed which helps to detect the quantity of dustbin filled and also to detect the gas and water level quantity. If it reaches threshold level the message will be sent to the municipal office and they will take care of the dustbin immediately.

All the devices we are connected to the internet is a part of IOT. This is beneficial in growth of the infrastructure of the city and also reduces the cost burden to the government and on the other hand reduces the smell and mosquito growth thus helps to make the city free from diseases and insects by making City hygienic.

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II. LITERATURE SURVEY

The garbage monitoring in urban communities must be practical and effectively done. The different opinions was ahead in development and some of them officially actualized where successful project has not been proposed. So there is grip of knowledge done among various opinions and the review paper includes Study among several procedures followed for waste management in metropolitan areas utilizing Internet of things.

1. Authors are Vikrant Bhor, PankajMorajkar, MaheshwarGurav, DishantPandya. Title of this article is "Smart Garbage Management System", This article describes the level of dustbin is monitored with the help of ultrasonic sensor and it is interfaced with GSM module which will send message to the mobile phones.

2. Authors are S.S. Navghane, M.S. Killedar and Dr.V.M.Rohokale, Title of this article is "IoT Based Garbage and Waste Collection Bin", this article describes another strategy for waste management and administration. Dustbin is interfaced with the microcontroller and IR sensors which is interfaced with the wifi module to get the status of bin to the mobile phones.

3. Authors are Alexey Medvedev, PetrFedchenkov, ArkadyZaslavsky, Theodoros, Anagnostopoulos Sergey Khoruzhnikov.Title of this project is "Waste Management as an IoT-Enabled Service in Smart Cities". This report scrutinizes the different ways by which the refuse is gathering and also the difficulties in accumulation for the period 2005 to 2011 in creating nations.

4. Authors are Parkash1, Prabu. Title of this project is "IoT Based Waste Management for Smart City". The main component used in this project is IR sensor.

5. Authors are Krishna Nirde, Prashant S. Mulay, Uttam M.Chaskar. Title of this project is "IoTbased solid wastemanagement system for smart city". The main component usedin this project is GSM module and arduino.

6. Authors are Prof. S.A. Mahajan, Akshay Kokane, Apoorva Shewale, Mrunaya Shinde , Shivani Ingale. Title of this project is "Smart Waste Management System using IoT". The main component used in this project is rasberrypi with GSM module.

All the research papers and review papers that have gone through during this literature survey have utilised the resources and technologies related to Internet of things at the cost of power in some conventional form, but the proposed project has effective handling of refuse which can be watch over with the assistance of non-conventional energy resources.

2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN)

Home Automation and Security System with Node MCU using Internet of Things

K. Lova Raju[1*], *Member, IEEE*, V. Chandrani[1], SK. Shahina Begum[1], M. Pravallika Devi[1],
[1]*Vignan's Foundation for Science, Technology & Research, Guntur, Andhra Pradesh, India*

***Abstract* - Internet of Things is composed of things that have unique identities and are connected to each other over internet. It is simply connecting and monitoring various devices and sensors through Internet. This paved the way for home automation and monitoring which makes human life more comfortable and secured. This paper describes the overall notion of the IOT based sensing systems and monitoring systems for implementing an automated home. The proposed prototype uses Node MCU board with internet being remotely controlled by Android OS smart phone. Node MCU is the heart of this system and it can perform as a micro web server and it acts as an interface for the wide range of hardware modules. To control lights, fans and other home appliances which are connected to the relay system, the system offers switching functionalities. It is also used for environmental monitoring by sensing and analyzing data about temperature and humidity. Another notifying feature in this system designed is the intrusion detection which is offered by this system using motion sensor. All these activities are controlled by using Android mobile app-Blynk.**

Index Terms – Node MCU, IoT, Blink app, Sensors, Security.

I. INTRODUCTION

IoT (Internet of Things) is the environment in which physical items interact with each other and user–to–computer communications, machine – to- machine communications are enabled and this communication is extended to "things" [1].The IOT devices have the capacity to exchange the contents depending upon the control of function in a specified manner. The benefit of IOT networks is that they can separate and create information by designating, filtering, handling and extracting the data. The authorities predicted that by the year 2020, around 50 billion devices will have internet connection [2].

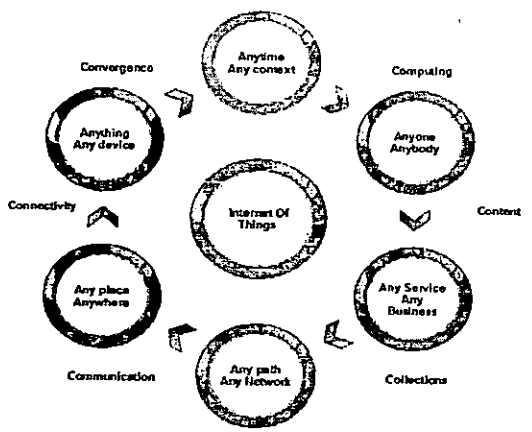

Fig. 1 Illustration of IoT

This article explains the various possibilities of connecting small devices and make it easier to the human life much easier. More than one device can be connected to a single network through the wireless fidelity technology.2.4GHZ is the frequency range which is officially agreed [3] for it.

IOT plays a virtual role of creating smart environments by connecting to the internet. The above Fig.1 represents the usage, maintenance, helpfulness, efficiency of IOT in rapidly growing technology at anywhere, any network, any time, any one [4].Also as IoT deals with large quantity of data received from different sensors which are deployed in the smart environment, sufficient care has to be taken for efficient maintaining, securing and for storing this collected data [5]. This system also works for the security purpose, if any inevitable incident happens, the user will immediately receive alert message in their smart phone.

II. RELATED WORK

Emerging technologies these days are playing a vital role in making human life automated. In this busy world human beings are absorbed with internet and automated devices. As a consequence automated homes or smart homes have become a buzz word and their implementation is increasing rapidly. Smart homes doesn't simply mean communication with hardware devices using internet, it should also include secured linking. We did a good research on the papers on Home automation and various designs implemented in the past. Some of the existing designs are briefed here.

Kumar Mandula in his paper implemented home automation in two ways using Bluetooth and using Ethernet. Arduino is used for programming and controlling various devices. Bluetooth is for short range communication. So, in smart home implemented using Bluetooth, one can operate the devices from home only within the vicinity of 10-20m.This limitation has been overcome in the next design using Ethernet. This paper discussed only the control of different electronic devices in home using mobile app but it did not include any security features.Mitul Sheth in his project discussed various possible devices that can be connected to Internet using Android App and different modes of using them; manual and automated mode. The Smart Santander Project deployed around 20 thousand sensors for measuring various parameters like temperature, moisture content, to detect levels of CO and NO2 gases for monitoring environment in gardens and parks.

III. PROPOSED SYSTEM

As the cost of the products is increasing in our routine life due to the development of technology a small idea called smart home project is introduced to reduce the cost and inconvenience. A smart home is able to control the home even though the person is not available in home [6]. The IoT system can be formed by the collaboration of MCU with other

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https://doi.org/10.1007/s11277-020-07334-x

IoT Technologies in Agricultural Environment: A Survey

K. Lova Raju[1] · V. Vijayaraghavan[1]

Published online: 28 April 2020

Abstract
Agriculture functions as an indispensable act in the world by meeting one of the basic needs of an individual named food, in spite of the fact that the assets are being reduced day by day and also various other problems arise irrespective of biases. In this scenario, unlike many technologies, when every other way fails to sense the routine of a crop, automation takes place by connecting to the invincible storages like cloud and streamlining the process by figuring its hardware and implementing user-friendly internet platform. IoT has set a benchmark in the technologies and has become a backbone to agriculture. This advancement in technology helps in farming automation, which helps in shaping a farmer's workspace, ensuring them with device management, connectivity management, and productivity as a result along with remote management. This paper gives an insight on introduction to IoT, agriculture IoT, emerging wireless technologies of IoT, architectures and applications of IoT.

Keywords Internet of things · Agriculture sensors · Cloud platforms · Wireless technologies · Hardware boards · Machine learning algorithms

1 Introduction

The INTERNET has undergone a drastic evolution in the last two decades. The transition from IPv4 to IPv6 is a piece of evidence for this dynamic change. The tag IoT is given to the connected physical devices on the internet by the executive director, Kevin Ashton at Auto-ID Labs, MIT [1]. According to [2] there will be 50 billion things linked to each other through the internet around the globe by the year 2020. Internet of things (IoT) is the technology for embedded systems wherein devices are allied to the internet consists of sensors, transducers, network connectivity and actuators used to gather and interchange information between themselves [3] as shown in below Fig. 2.

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Node MCU Based Power Monitoring and Smart Billing System Using IoT

Chapter · January 2020

DOI: 10.1007/978-3-030-24318-0_42

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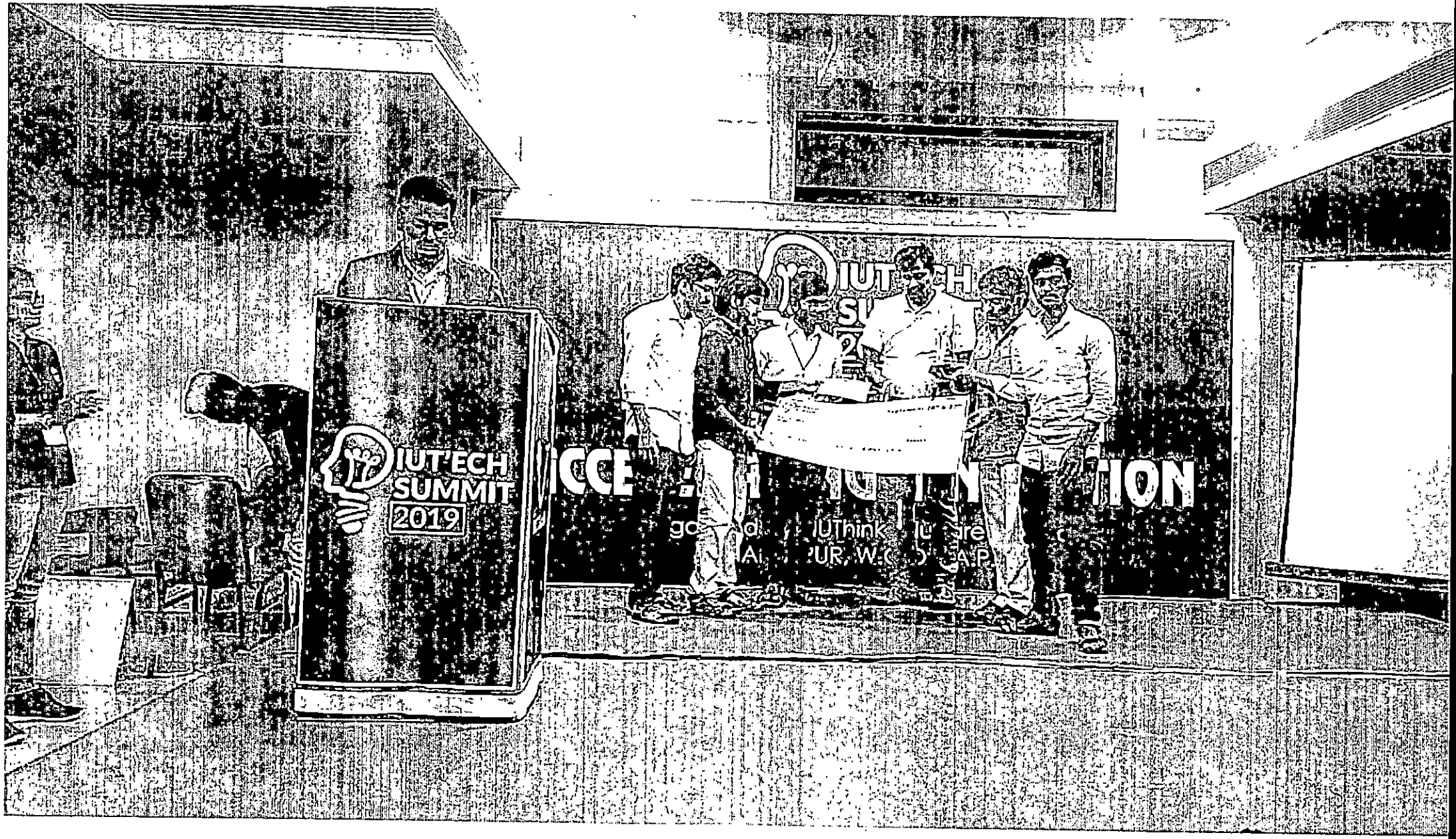
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The above faculties have attended the Introduction session in Control Instrumentation Center.

13/03/21
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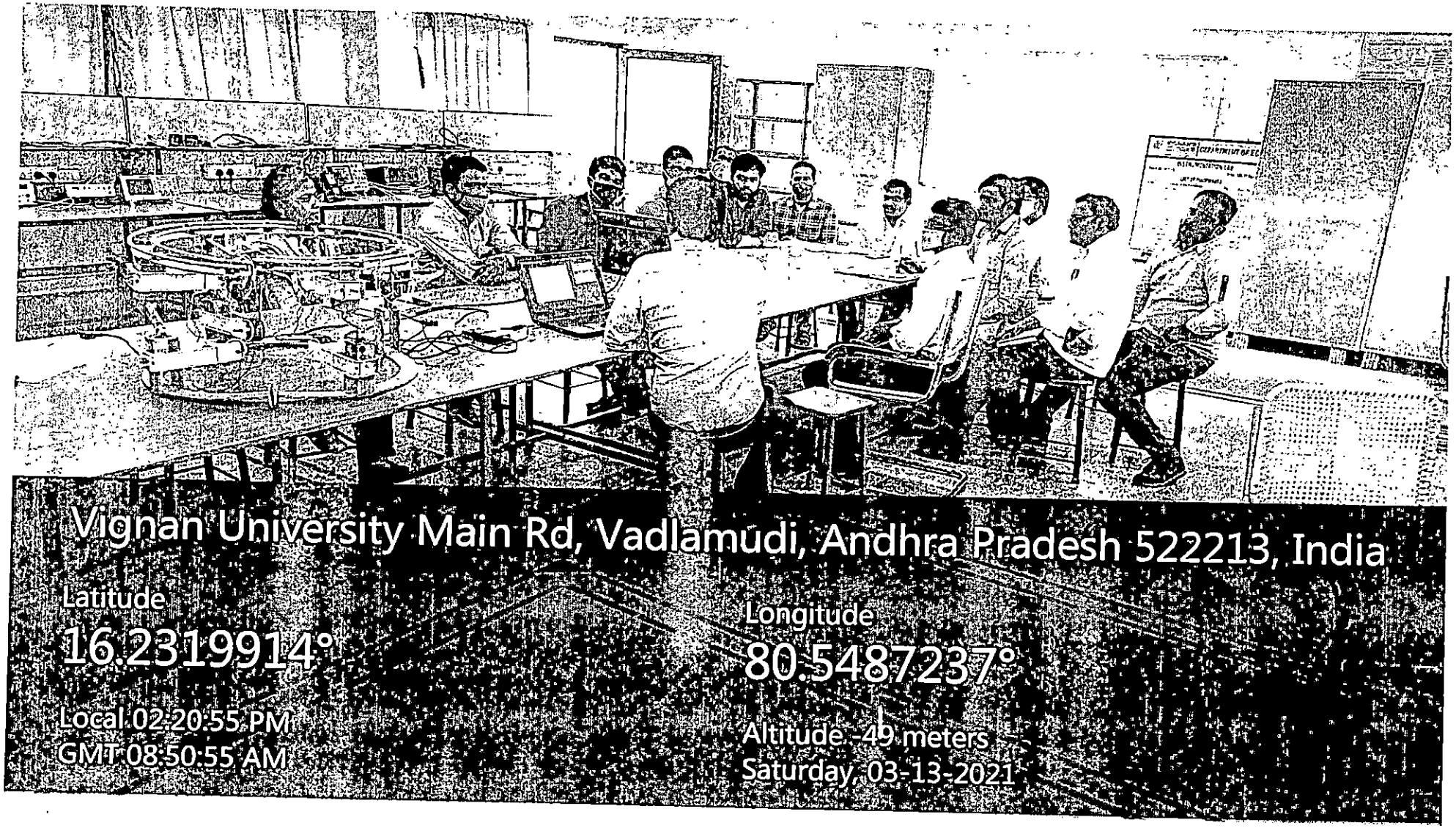
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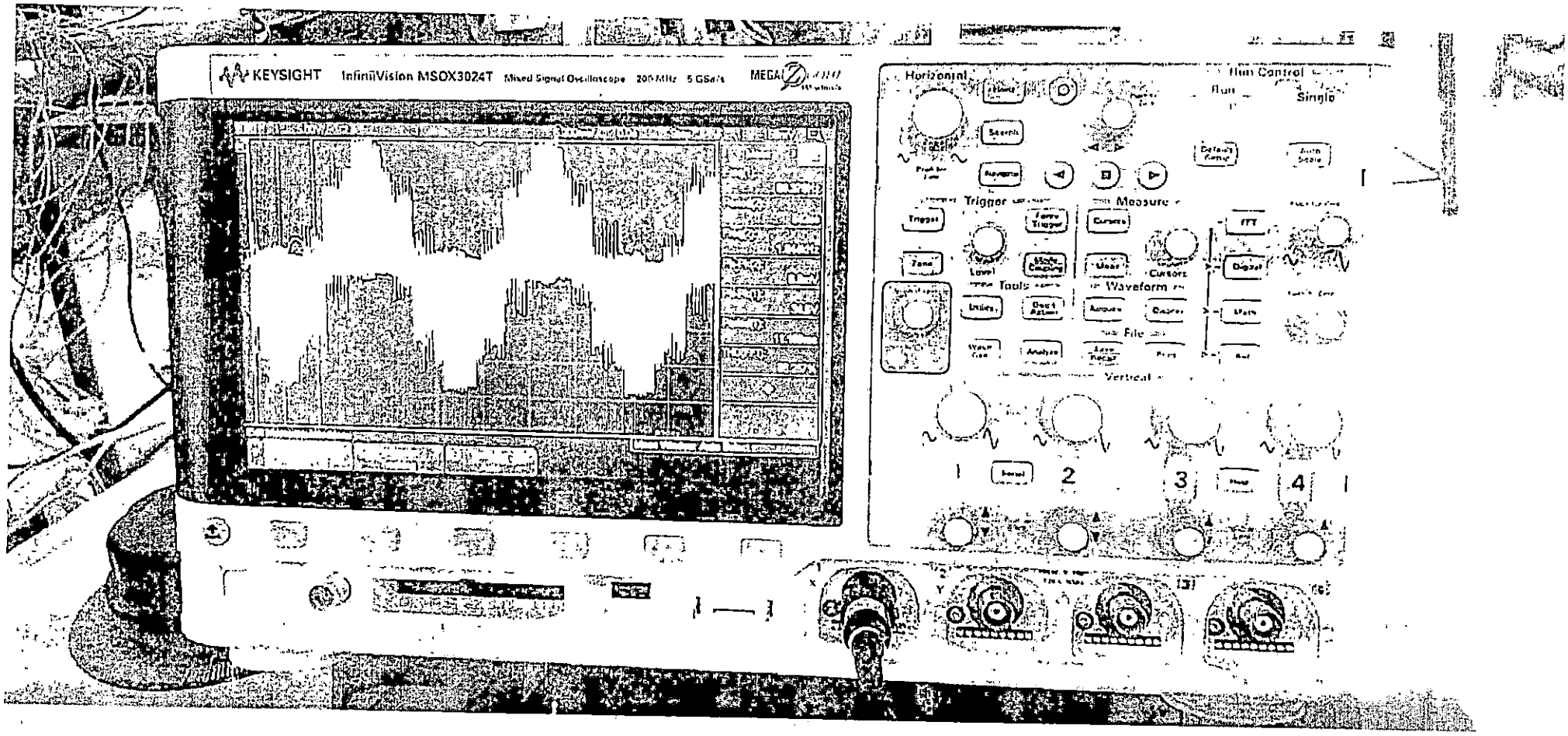
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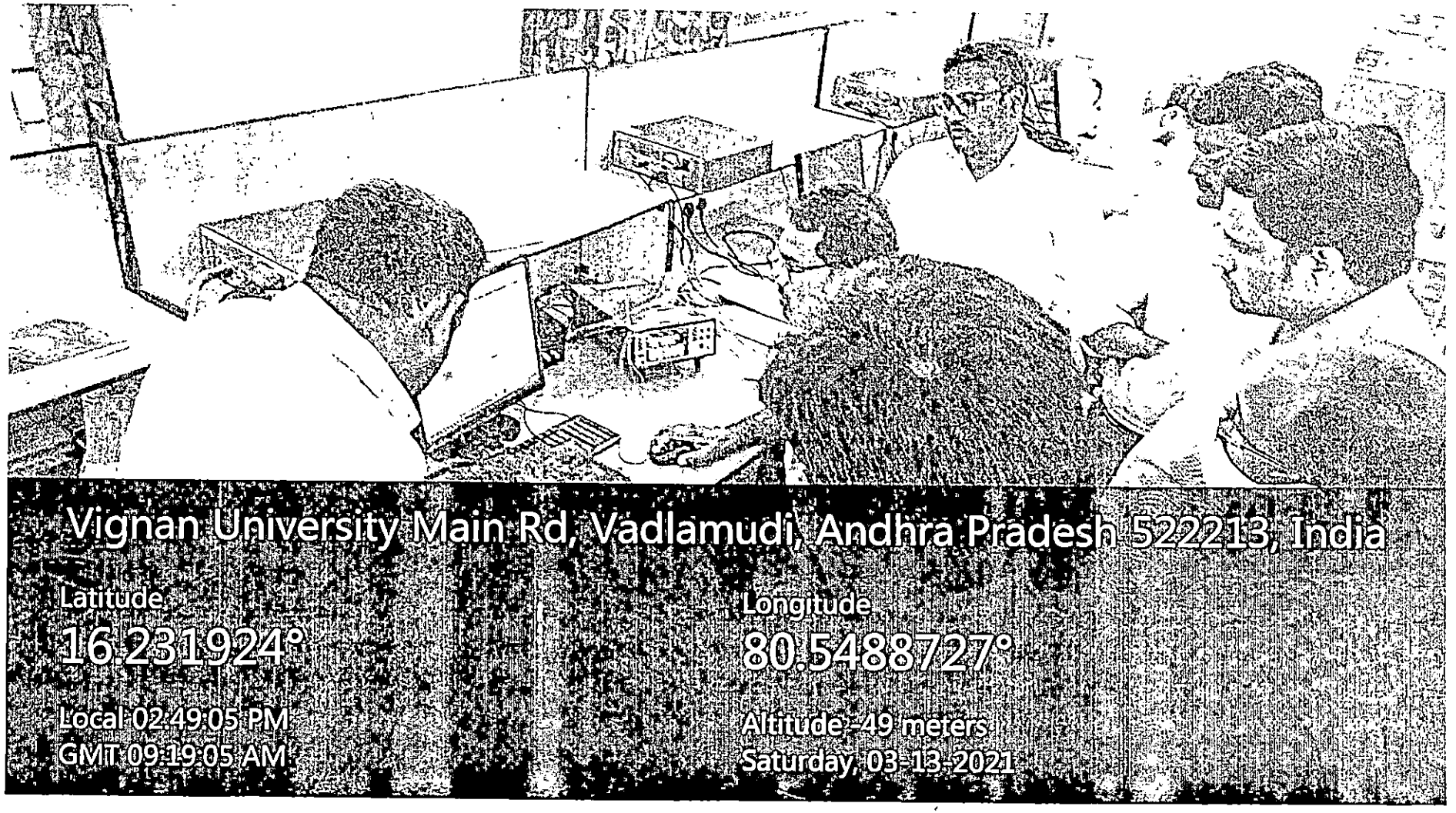
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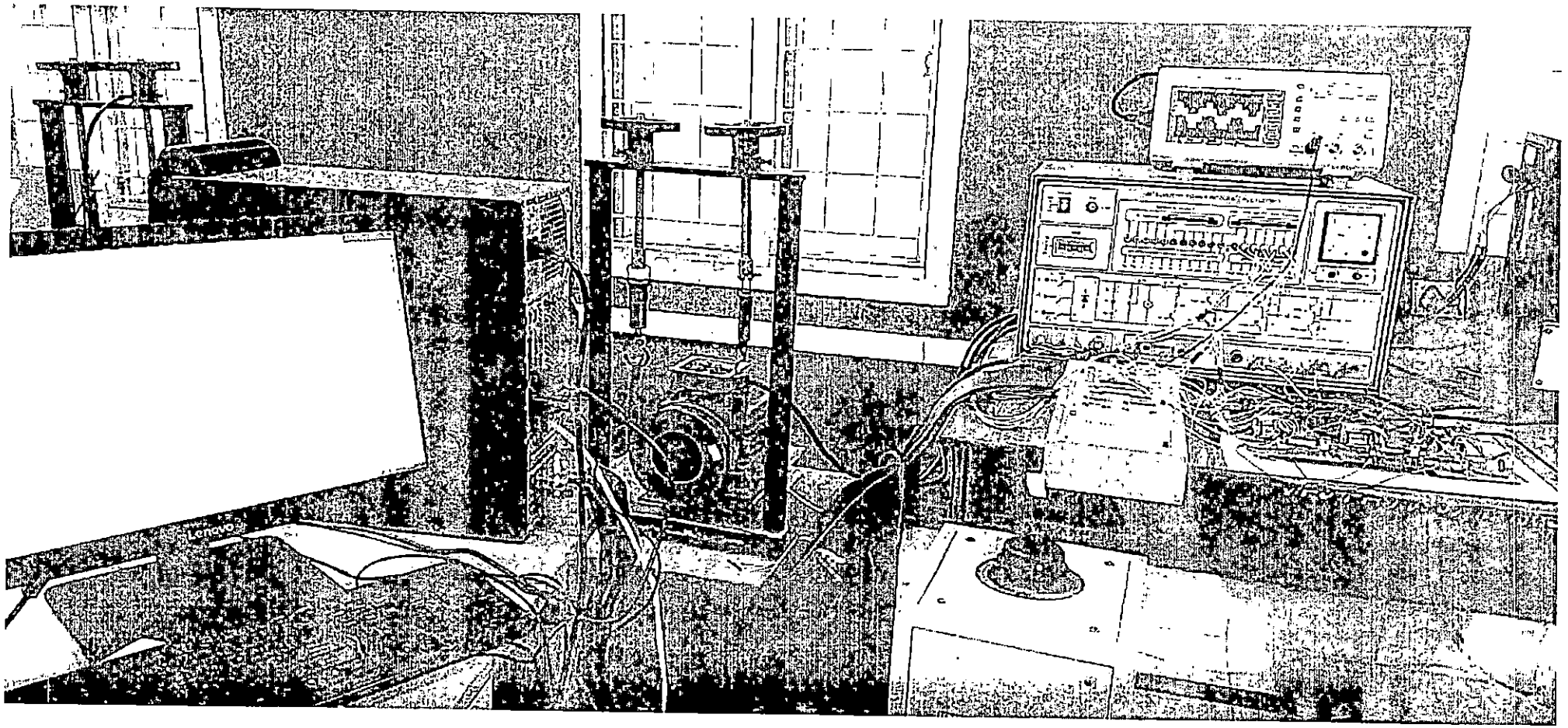
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S.No	Inventory Numbering	Item	Quantity	Remarks
1	VFSTR/WS/L.T-47	Experiments Work benches	22	
2	VFSTR/WS/L.T-48			
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	22/9/21	Dr.[illegible]	S&H	Research work	11:00	1:00	
	22/09/21	P.Dinkar	FT	Research Analysis	2:00	3:30	
	22/9/21	Mr. S. Sivaji	EEE	DAQ learning session	3:00	4:20pm	
	"	N B Prakash T	Mech	Research work	3:10	4:30	
	"	Bale Krishna K	EEE	Research work	12:00	4:00	
	23/9/21	Dinkar	FT	Research work	2:00	3:30	
	23/9/21	E. Govindaraju	research	project work	1:00	3:15PM	
	"	A.SRIHARIBABU	EEE	project work	9:30AM	11:20AM	
	23/9/21	Sk. Saibabu	S&H	Research work	10:00	10:30	
	24/9/21	Dr.[illegible]	S&H	Research work	10:30	1:00	
	"	S. Venkatesh	chem	Research work	10:30	11:30	
	"	Bale Krishna K	EEE	Technical work	5:00	1:00 PM	
	25/9/21	Mr. S. Sivaji	EEE	Signal Conditioning data acquisition	8:30am	10:30	
	"	N B Prakash T	Mech	Research work	9:00	11:00	
	25/9/21	Dr.[illegible]	S&H	Research work	10:00	12:00	
	28/9/21	E. Govindaraju	research	Research work	11:00	12:30	
	27/9/21	Bale Krishna K	EEE	plagiarism and paper work	12:00	2:30pm	
	"	Mr. S. Sivaji	EEE	RSD Signal conditioning data	1:00pm	5:00pm	
	27/9/21	Sk. Saibabu	S&H	Research work	2:00PM	2:30PM	
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	28/9/21	E. Govindaraju	research	Research work	11:00	12:45PM	
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	30/9/21	E. Govindaraju	research	Research work	2:30	3:45PM	

Date	Regd.no/name	Dept	Purpose	Timing In	Timing Out	Signature	Date	Reg
19/21	B. Venkatesh	chem	Research work	9:30	12:00	[signature]	22/9/21	
21/9/21	Dr. J. Ashok	S&H	Research work	10:00	12:00	[signature]	22/09/21	
11	Mr. S. Sivaji	EEE	Signal Conditioning ckt	10:30	11:30	[signature]	22/9/21	M
21/9/21	K. Bala Krishna	EEE	Research work	9:00	12:00	[signature]	11	N
11	N B Prasath T	Mech	Research work	9:30	11:00	[signature]	11	Ba
11	A.SRIHARI BABU	EEE	PhD work	11:00 AM	1:00 PM	[signature]	23/9/21	D
19/21	Ravi Kant	Chem	Research work	11:00	12:00	[signature]	23/9/21	E
19/21	Dr. J. Ashok	S&H	Research work	11:00	1:00	[signature]	11	A
19/21	Dinkar	FT	ohmic heating	1:30	4:30	[signature]	23/9/21	SK
11	N B Prasath T	Mech	Research work	11:50	2:20	[signature]	24/9/21	Dr.
5/9/21	E. Govinda Apulu	Mech	progress work	2:00	3:00	[signature]	11	G.
11	K. Bala Krishna	EEE	Journals search, Research	1:00	4:00 PM	[signature]	11	Ba
9/21	SK. Saibabu	S&H	Research purpose	18:00	18:30	[signature]	25/9/21	M
11	A.SRIHARIBABU	EEE	PhD Research work	10:20 AM	12:30 PM	[signature]	11	N
	B. Venkatesh	chem	Research work	11:00	12:30	[signature]	25/9/21	D
19/21	Dr. Dinkar	FT	Research work	2:00	3:30	[signature]	25/9/21	G
11	N B Prasath T	Mech	Research work	2:30	4:30	[signature]	27/9/21	Ba
11	K. Bala Krishna	EEE	Research work	9:00	12:00 PM	[signature]	11	Mr
19/21	SK. Saibabu	S&H	Research work	10:00	10:30	[signature]	27/9/21	SK.
19/21	Ravi Kant	Chem	Research work	11:00	12:30	[signature]	28/9/21	A.
11	Mr. S. Sivaji	EEE	Design, test & using DAQ	12:20	1:45	[signature]	28/9/21	E.
19/21	E. Govinda Apulu	Mech	Research work	1:00	4:00	[signature]	28/9/21	Dr
19/21	ASRIHARIBABU	EEE	project work	9:30 AM	11:00 AM	[signature]	28/09	Dr.
19/21	SK. Saibabu	S&H	Research work	10:00	10:30	[signature]	29/9/21	N
11	Bala Krishna K	EEE	Research, paper work	12:00	3:00 PM	[signature]	11	R.
19/21	E. Govinda Apulu	Mech	Research work	11:00	12:30	[signature]	11	[signature]
0/9/21	Mr. J. Ashok	S&H	Research work	9:00	1:00	[signature]	11	G
0/9/21	Dinkar	FT	Research work	1:00	3:00	[signature]	30/9/21	Dr
11	N B Prasath T	Mech	Research work	1:30	3:20	[signature]	30/9	D
1/9/21	B. Venkatesh	chem	Research work	10:00	1:00	[signature]	11	N
11	Bala Krishna K	EEE	Research	9:00	12:00	[signature]	30/9/21	E.

Signature	Date	Regd.No/ Name	DEPT	PURPOSE	Timing IN	Timing OUT	SIGN
	7/9/21	P.Md.AFREEDHAN	ECE	IDP	8:10	9:50	
	7/9/21	A.Janardhan	ECE	IDP	8:10	9:50	
	7/9/21	K.M. Sai Kiran	ECE	IDP	8:10	9:50	
	7/9/21	B Raja Babu	ECE	IDP	8:10	9:50	
	7/9/21	Y. Veeresh	ECE	IDP	8:10	9:50	
	7/9/21	G. manasa	ECE	IDP	8:10	9:50	
	7/9/21	B. Alekya	ECE	IDP	8:10	9:50	
	7/9/21	A. Rakesh Reddy	ECE	IDP	8:10	9:50	
	7/9/21	Maduri	ECE	IDP	8:10	9:50	
	7/9/21	Ghayatri	ECE	IDP	8:10	9:50	
	7/9/21	N. ujwala	ECE	IDP	8:10	9:50	
	7/9/21	G. Kavya	ECE	IDP	8:10	9:50	
	7/9/21	A. Bharathi	ECE	IDP	8:10	9:50	
	7/9/21	G. Vipul	ECE	IDP	8:10	9:50	
	7/9/21	M. Gokul	ECE	IDP	8:10	9:50	
	7/9/21	T.V. Vishwanth	ECE	IDP	8:10	9:50	
	7/9/21	R. Sai Krishna	ECE	IDP	8:10	9:50	
	7/9/21	P. Jyothirmai	ECE	IDP	8:10	9:50	
	7/9/21	P. Sowmya	ECE	IDP	8:10	9:50	
	7/9/21	A. SRIHARIBABU	EEE	Ph.D research work	9:30	12:00	
	7/9/21	Ravi Kant	Chem	Research work	10:00	11:00	
	7/9/21	Dr. J. Nelson	S&H	Research work	10:30	12:00	
	8/9/21	N B Ramesh T	Mech	Research work	11:00	1:00	
	8/9/21	K. Balakrishna	EEE	Ph.D work	12:00	1:00 PM	
	08/9/21	Dr. Dinkar	FT	Research work	2:00	4:00	
	8/9/21	E. Govindaraju	Research	Research work	2:00	3:50	
	9/9/21	K. Balakrishna	EEE	Simulation work	9:30	12:00 pm	
	"	A. SRIHARIBABU	EEE	Research work	9:20	11:40	
	"	Ravi Kant	Chem	Research work	10:00	11:00	
	9	N B Ramesh T	Mech	Research work	11:00	12:00	
	9/9/21	E. Govindaraju	Research		11:25	12:20	

ate	Regd.No/Name	Dept	Purpose	Timing in	Timing out	signature	Date	Re
8/21	D.Narendra	ECE	Thermal Screening	9:00	5:00		7/9/21	P.N
	Dr. Shivajee	ECE	Temp wise	7:30	5:00		7/9/21	A
9/21	K.Reshma	ECE	IDP	8:10	9:50		7/9/21	K.
9/21	M.Vineetha	ECE	IDP	8:10	9:50		7/9/21	E
9/21	SK.Bano Rukhmi	ECE	IDP	8:10	9:50		7/9/21	Y.
9/21	S.Manjusa Priya	ECE	IDP	8:10	9:50		7/9/21	G
9/21	A.Soujanya	ECE	IDP	8:10	9:50		7/9/21	B
9/21	Hanisha	ECE	IDP	8:10	9:50		7/9/21	A
9/21	T.Rohitha	ECE	IDP	8:10	9:50		7/9/21	
9-21	A.Lakshmi Prasanna	ECE	IDP	8:10	9:50		7/9/21	G
9-21	N.Jyothsna Chowdary	ECE	IDP	8:10	9:50		7/9/21	N
9-21	S.Tanmayee	ECE	IDP	8:10	9:50		7/9/21	G
9-21	Y.Vineesha	ECE	IDP	8:10	9:50		7/9/21	A
9/21	S.Harshitha	ECE	IDP	8:10	9:50		7/9/21	G
9/21	L.Rakesh	ECE	IDP	8:10	9:50		7/9/21	M.
9/21	N.Venkatesh	ECE	IDP	8:10	9:50		7/9/21	N
9/21	B.Hemanth	ECE	IDP	8:10	9:50		7/9/21	R.
9/21	A.Dharanisivareddy	ECE	IDP	8:10	9:50		7/9/21	P.
9/21	G.Bharath	ECE	IDP	8:10	9:50		7/9/21	P.
9/21	Ch.Shanmukh	ECE	IDP	8:10	9:50		7/9/21	A
9/21	A.Santosh	ECE	IDP	8:10	9:50		7/9/21	P
9/21	A.Naveen	ECE	IDP	8:10	9:50		7/9/21	D
9/21	K.Narendra	ECE	IDP	8:10	9:50		8/9/21	N
9/21	G.Siva Sankar	ECE	IDP	8:10	9:50		8/9/21	K.
9/21	J.Prudhvi	ECE	IDP	8:10	9:50		08/9/21	D
9/21	V.V.Balaji	ECE	IDP	8:10	9:50		8/9/21	E
9/21	T.Tarun	ECE	IDP	8:10	9:50		9/9/21	K.
9/21	K.Yashwanth	ECE	IDP	8:10	9:50		"	A
9/21	S.Dinesh	ECE	IDP	8:10	9:50		"	P
9/21	K.Mouni Sai	ECE	IDP	8:10	9:50		"	N
9/21	J.Ravi teja	ECE	IDP	8:10	9:50		9/9/21	E

Sign	Date	Regd.NO/Name	DEPT	purpose	Timing in	Timing out	Sign out
Mohiddin	29/6/21	D. Ravi	ECE	Antenna Soldering	10:10	10:50	Ravi
Ravi	29/6/21	P. KRISHNA MURTHY	ECE	" "	10:0	10:50	
D.Ravi	02/7/21	" "	"	" "	9:00	10:00	
K.Anil	06/7/21	K Anil Kumar	ECE	Antenna Soldering	3:10	3:30pm	
	6/7/21	Dr. NVR Vikrama G	ECS	Tree climbing Robot	9:00 AM	4:30 PM	
	"	G.S.R	ECE	"	9:00	4:30	
	7/7/21	Dr. NVR Vikrama	E.C.E	Tree climbing Robot	2:00	4:30 PM	
	"	G.S.R	ECE	"	2:00	4:30	
	"	Dr Rangamayakulu	EEE	DAQ interface to labview	2:55	3:10 pm	
Ranga	8/7/21	G.S.R	ECE	"	2:00	4:30	
	8/7/21	Dr. NVR Vikrama	ECE	Tree climbing Robot	2:00	4:30 PM	
	8/7/21	M. Sekhar	ECE	DAQ	2:00	4:30	M.Sekhar
M.Sekhar	"	Dr. Rangamayakulu	EEE	Labview Upload	2:05	3:10 pm	
	9/7/21	G.S.R	ECE	Tree climing Robot	9:00	4:30	
	9/7/21	Dr. NVR Vikrama	ECE	Tree climbing Robot	9:00 AM	4:30 PM	
	9/7/21	K. JANAKIRAM	ECE	Tree climbing Robot	9:00 AM	4:30 PM	
	9/7/21	M. Sekhar	ECE	DAQ	10:00	12:00	M.Sekhar
	"	Mr. S. Srinivas	ECE	op amp design ckt.	12:00	1:45 pm	
	"	Dr. Rangamayakulu	ECE	Labview Experiment	1:15	3:45 pm	
M.Sekhar							
Ranga	10/7/21	G.S.R	ECE	Tree climing Robot	9:00	4:30	
	10/7/21	Dr. NVR Vikrama	ECE	Tree climbing Robot	9:00 AM	4:30 pm	
	13/7/21	D. Ravi	ECE	Antenna Soldering	9:00	9:50	Ravi
	18/8/21	Ravi	ECE	"	6:10	10:10	Ravi
	14/7/21	Dr. Vikram	ECE	Tree climbing Robot	9:00 AM	4:30 PM	
Ranga	"	Dr. Rangamayakulu	EEE	Labview Exp design	10:00 AM	1:00 PM	Ranga
	20/7/21	Dr. NVR Vikrama	ECE	Tree climbing Robot	9 AM	5:00 PM	
	22/7/21	Dr. NVR Vikrama	ECE	Tree climbing Robot	9:00 AM	5:00 PM	
	27/7	Dr. Shivaji	ECE	"			

Date	Regd.no / Name	Dept	purpose	Timing in	Timing out	Signature	Date	Regd
0/4/21	171FA05358	ECE	project ppt	10:00		Mohiuddin	29/6/21	
/6/4	Rani	ECE	Antenna SMA Soldering	11:30	11:40		29/6/21	
0/4/21	171FA05095	ECE	Project on Antenna	12:00	1:00		02/7/21	
1/4/21	171FA0509J	ECE	"	11:00	"		06/7/21	K
1/4/21	Dr.NVR Vikram	ECE	DAQ	1:30pm	5:30pm		6/7/21	Dr
/4/21	M.S.Sivaji	ECE	Seed characteristics	1:45	2:40		"	G.
5/4/21	Rani	ECE	Antenna soldering	1:40	2:30		7/7/21	Dr.
	N. Anandarao	ECE	Waveform Generator	11:50	1:50		"	G.
	M.S.Sivaji	ECE	Design thermocouple	12:10	1:15pm		"	Dr.
	Dr. Ponnamayakula	ECE	Instrumentation manual	12:55	2:00		8/7/21	G.
2/4/21	Dr.NVR Vikram	ECE	DAQ, DMM, Research	10:00am	4:30pm		8/7/21	Dr
	N. Anandarao	ECE	Spectrum Analyzer	2:50	3:50		8/7/21	M.
2/4/21	M. Sekhar	ECE	DAQ	2:30	4:30		"	Dr.
							9/7/21	G
3/4/21	M.S.Sivaji	ECE	DAQ interface	5:00pm	6:15pm		9/7/21	Dr.
"	Dr. Ponnamayakula	ECE	Manual preparation	5:10pm	6:10pm		9/7/21	K
							9/7/21	M
4/4/21	Dr.NVR Vikram	ECE	Research work	11:30pm	4:00pm		"	M
4/4/21	Rani	ECE	Antenna Soldering	1:30	2:30		"	Dr
5/4/21	M. Sekhar	ECE	DAQ	1:30	3:30			
"	Dr Ponnamayakula	"	Design of RTD Seed	1:45pm	8:10pm		10/7/21	G.
6/4/21	Dr. NVR Vikram	ECE	Tree climbing Robot	10:00am	5:00pm		10/7/21	Dr
	N. Anandarao	ECE	Spectrum Analyzer	12:50	2:50		13/7/21	D
"	M.S.Sivaji	ECE	Daq seed interface	1:45pm	8:00pm		18/7/21	
"	G.V.R	ECE	Tree climbing	1:15	8:1pm		19/7/21	Dr
"	Dr Ponnamayakula	"	Lab view Thermocouple data	1:30pm	2:00pm		"	Dr
6/4/21	D. Narendra	ECE	Thermal Scanning	1.30	2.30		20/7/21	Dr
							22/7/21	Dr
6/							2/7	D

	Signature	Date	Regd no/ Name	Dept	Purpose	Timing in	Timing out	Signature
10		16/4/21	171FA05330	ECE	project	9:30	10:30	
		16/4/21	171FA05346	ECE	project	9:30	10:30	
20		16/4/21	171FA05009	ECE	water level controlling	9:30	12:00	
		16/4/21	171FA05137	ECE	project	1:00	3:00	
		16/4/21	171FA05133	ECE	project	1:00	3:00	
10		16/4/21	171FA05075	ECE	project	1:00	3:00	
0		18/04/21	191FA05127	ECE	LabVIEW IDP	1:35	4:00	
2		18/04/21	191FA05117	ECE	Labview IDP	1:35	4:05	
2		18/04/21	191FA05105	ECE	Labview IDP	1:35	4:05	
		18/04/21	191FA05077	ECE	Labview IDP	1:35	4:00	
		18/04/21	191FA05104	ECE	Labview IDP	1:35	4:00	
10		19/4/21	171FA05319	ECE	Node Red	8:30	11:00	
		19/4/21	171FA05286	ECE	Node Red	8:30	11:30	
		19/4/21	171FA05340	ECE	project	8:30	12:00	
20		19/4/21	171FA05217	ECE	Project (Smart Irrigation)	9:00	11:30	
		19/4/21	M.R Nagaraju	ECE	project	10:10	12:35	
20		19/4/21	171FA05095	ECE	Project	11:00	4:40	
	Sonu	19/4/21	171FA05128	ECE	Project	11:00	4:40	
		19/4/21	191FA05127	ECE	LabVIEW IDP	1:35	4:05	
		19/4/21	191FA05103	ECE	LABVIEW IDP	1:35	4:05	
		19/4/21	191FA05074	ECE	LABVIEW IDP	1:35	4:05	
		19/4/21	191FA05117	ECE	LABVIEW IDP	1:35	4:05	
0		19/4/21	191FA05134	ECE	Labview IDP	1:35	4:05	
		19/4/21	191FA05107	ECE	labview IDP	1:35	4:05	
2		19/4/21	191FA05099	ECE	labview IDP	1:35	4:05	
2		19/4/21	191FA05080	ECE	labview IDP	1:35	4:05	
		19/4/21	191FA05119	ECE	labview IDP	1:35	4:05	
		19/4/21	191FA05093	ECE	lab View IDP	1:35	4:05	
		20/4/21	171FA05286	ECE	Node Red	8:30		
50		20/4/21	171FA05313	ECE	project Node Red	8:30		
0		20/4/21	171FA05340	ECE	project	8:30		

Date	Regd.no/ Name	dept	purpose	Timing in	Timing out	signature	Date	Re
7/4/21	171FA05066	ECE	Project	10:00	4:30	Sushma	16/4/21	17
7/4/21	171FA05097	ECE	Project	10:00	4:30	Bhadra	16/4/21	17
7/4/21	171FA05246	ECE	Project	1:00	4:30	Sumanthini	16/4/21	17
7/4/21	171FA05095	ECE	Designing Antenna's in HFSS	9:15		B.Balaji	16/4/21	17
7/4/21	171FA05206	ECE	Project	9:50		V.Manisha	16/4/21	17
8/4/21	Dr.R.Rajeswarlu	ECE	LabVIEW	1:40	4:00	R	16/4/21	1
8/4/21	G.Bharathi	ECE	Project	2:20	4:00	Bharathi	18/04/21	19
8/4/21	V.Sushma	ECE	Project	2:20	4:00	Sushma	18/04/21	19
8/4/21	Nithya Sai	ECE	project	2:20	4:00	Nithya Sai	18/04/21	19
9/4/21	171FA05095	ECE	Antenna in HFSS	10:00		B.Balaji	18/04/21	19
9/4/21	Dr S.K. Tiwari	ECE	Labview	1:30	4:30		18/04/21	19
9/4/21	Manu	ECE	RTD NI Lab.	3:00	6:00		19/4/21	17
9/4/21	Chaudhu	"	"	"	"		19/4/21	19
9/4/21	Ramya	"	"	"	"		19/4/21	1
15/4/21	V.sumitha	"	tree climbing robot	8:30	9:50		19/4/21	1
15/4/21	V. praneeth	"	"	8:30	9:50		19/4/21	17
15/4/21	D. Akhil	"	"	8:30	9:50		19/4/21	17
15/4/21	171FA05375	ECE	thingspeak working	8:30		Sonu	19/4/21	17
15/4/21	Dr.R.Rajeswarlu	ECE	LabVIEW adaptive link	1:40	4:00	R	19/4/21	19
15/4/21	171FA05009	ECE	Project	2:00	4:00		19/4/21	19
15/4/21	171FA05066	ECE	Project	2:00	4:00	Sushma	19/4/21	1
15/4/21	171FA05097	ECE	Project	2:00	4:00	Bhadra	19/4/21	1
16/4/21	171FA05331	ECE	project	8:30	4:00		19/4/21	19
16/4/21	171FA05286	ECE	project	8:30	4:00		19/4/21	1
16/4/21	171FA05049	ECE	Project	9:00	4:00	Tulasi	19/4/21	1
16/4/21	171FA05244	ECE	Project	9:00	4:00	Rajitha	19/4/21	19
16/4/21	171FA05375	ECE	Python code	8:30		Sonu	19/4/21	17
16/4/21	171FA05354	ECE	Course	9:30			19/4/21	17
16/4/21	171FA05137	ECE	project	9:30	10:50		20/4/21	17
16/4/21	171FA05133	ECE	"	9:30	10:50		20/4/21	1
16/4/21	171FA05075	ECE	"	9:30	10:50		20/4/21	17

	signature	Date	Regd.no/Name	Dept	purpose	Timing in	Timing out	sign
1	G. Bhavani		S. Nagamani	S&H	LCR Meter/Cp & D Values	1:30PM	3:00PM	
2	V. Swarajya.				5/4/21			
3	N Sureshraj	5-4-21	171FA05375	ECE	Python code	10.00	4:30	Sonu
4	M. Sivasai	5/4/21	171FA05095	ECE	Project work.	11:00	4:00	
5	[illegible]	5/4/21	171FA05128	ECE	Project	11:00	4:00	
6	Akalya	5/4/21	171FA05009	ECE	Project	10:00	2:00	
7	Santhosh.	5/4/21	171FA05066	ECE	Project	10:00	1:00	
8	Bala	5/4/21	171FA05097	ECE	project	10:00	12:00	
9	[illegible]				6/4/21			
	[illegible]	6/4/21	171FA05375	ECE	Raspberry Configuration	9:30	4:00	Sonu
	Nityasri	6/4/21	171FA05009	ECE	project	9:30	1:00	
	V. Shanthi	6/4/21	171FA05099	ECE	Project	9:30	12:30	
	G. Bhavani	6/4/21	171FA05066	ECE	Arduino	10:30	1:30	
	[illegible]	6/4/21	171FA05097	ECE	Arduino	10:30	12:00	
	[illegible]	6/4/21	171FA05217	ECE	Arduino	10:30	1:10	
	[illegible]	6/4/21	171FA05231	ECE	Arduino	10:30	2:15	
	[illegible]	6/4/21	171FA05225	ECE	Raspberry	10:30	3:45	
	[illegible]	6/4/21	171FA05267	ECE	Arduino	10:30	3:00	
	[illegible]	6/4/21	171FA05095	ECE	Project	11:00	4:00	
	[illegible]	6/4/21	171FA05128	ECE	Project	11:00	4:00	
	[illegible]	6/4/21	171FA05133	ECE	project	1:15	4:10	
	[illegible]	6/4/21	171FA05137	ECE	project	1:15	4:10	
	[illegible]	6/4/21	171FA08018	Mech	project	4:00	5:00	
	[illegible]	6/4/21	171FA08021	Mech	project	4:00	5:00	
	[illegible]	6/4/21	Nikhitha	Mech	project	4:00	5:00	
	[illegible]	6/4/21	Sridhar	Mech	project	4:00	5:00	
	[illegible]	7/4/21	171FA05286	ECE	Node-Red	8:20		
	[illegible]	7/4/21	171FA05313	ECE	Node-Red	8:20		
	[illegible]	7/4/21	171FA05339	ECE	Node-Red	8:20		
	[illegible]	7/4/21	171FA05375	ECE	Interfacing with sensor	9:10		
	[illegible]	7/4/21	171FA05009	ECE	Project	9:00	4:30	

ate	Regd.No/Name	Dept	purpose	Timing IN	Timing OUT	signature	Date	Reg
1/3/21	171FA05133	ECE	Tree climbing robot	8:10	9:00			S.
3/21	171FA05137	ECE	Tree climbing robot	8:10	9:00	V. Sumanth		
3/21	171FA05176	ECE	project	8:30	9:00	M Sumanth	5-4-21	17
3/21	171FA05177	ECE	"	8:30	10:10	M. Sivasai	5/4/21	171
3/21	171FA052?6	ECE	"	8:30	10:10		5/4/21	171
4/21	171FA05339	ECE	project Node red	8:10	10:00	Akalya	5/4/21	17
4/21	171FA05313	ECE	project Node red	8:10	9:30	Santhosh.	5/4/21	17
4/21	171FA05286	ECE	project node red.	8:10	10:00	Rajesh	5/4/21	171
4/21	171FA05164	ECE	project	8:10	11:30			
4/21	171FA05354	ECE	Project	10:10	11:00		6/4/21	171
4/21	171FA05009	ECE	project	10:00	12:00		6/4/21	171
4/21	171FA05068	ECE	project	10:10	10:40	V. Shanthi	6/4/21	171
4/21	171FA05097	ECE	project	10:10	11:00	G. Bhavitha	6/4/21	171
4/21	171FA05194	ECE	project	10:10	1:00		6/4/21	171
4/21	171FA05158	ECE	project	10:10	12:30		6/4/21	171
4/21	171FA05356	ECE	project	10:10	1:30		6/4/21	17
4/21	171FA05313	ECE	project	10:10	12:00		6/4/21	17
4/21	171FA05325	ECE	Python Coding	10:10	11:45		6/4/21	1
4/21	171FA05133	ECE	Tree Climbing Code	10:10	1:00		6/4/21	171
4/21	171FA05137	ECE	Tree climbing code	10:10	12:30		6/4/21	171
4/21	171FA05233	ECE	Python coding	10:10	11:00		6/4/21	171
4/21	171FA05031	ECE	Coding	10:10	12:00		6/4/21	171
4/21	171FA05079	ECE	Tree climbing code	10:10	1100		6/4/21	171
4/21	171FA05275	ECE	Coding	10:00	12:30		6/4/21	171
4/21	171FA05244	ECE	coding	10:10	1:40		6/4/21	Ni
4/21	A.SRIHARI	EEE	Research work	11:30	2:00		6/4/21	Sri
4/21	171FA05128	ECE	Project	11:30	4:40		7/4/21	171
4/21	171FA05095	ECE	Project	11:30	4:45	G.Balaji	7/4/21	171
4/21	E-Sivaji	EEE	DAQ for Mini project	10:15	12:00		7/4/21	171
4/21	171FA05095	ECE	Project work.	10:30	5:00		7/4/21	171
4/21	171FA05128	ECE	Project work.	10:30	5:00		7/4/21	17

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At	Signature	Date	Reg No / Name	Dept	purpose	Timing In	Timing out	Sign
00		30/3/21	171FA09313	ECE	project	8:15	10:30	
30	Kavya	30/3/21	171FA05286	ECE	project	8:15	10:00	
00	Ahalya	30/3/21	171FA05339	ECE	project	8:15	11:05	
00	Harika	30/3/21	171FA05340	ECE	project	8:15	10:30	
00	Shiva	30/3/21	171FA05298	ECE	project	8:15	10:00	
00	manasa	30/3/21	171FA05276	ECE	"	8:30	10:10	
		30/3/21	171FA05249	ECE	"	8:30	10:10	
		30/3/21	171FA05176	ECE	"	8:30	10:10	
30		30/3/21	171FA05177	ECE	"	8:30	10:00	
0		30/3/21	171FA05214	ECE	"	8:30	10:00	
0		30/3/21	171FA05254	ECE	"	9:00	10:00	
0		30/3/21	171FA05229	ECE	"	9:00	10:00	
30		30/3/21	171FA05231	ECE	"	9:00	10:00	
0		30/3/21	171FA05279	ECE	"	9:00	10:00	
30		31/3/21	Dr. S. Lakshmi	ECE	Review	9:00	12:00	
30		31/3/21	171FA05286	ECE	project	8:10	2:00	
10		31/3/21	171FA05313	ECE	project	8:10	2:00	
		31/3/21	171FA05339	ECE	project	8:10	2:00	
5		31/3/21	171FA05375	ECE	coding	8:10	2:00	
0		31/3/21	171FA05082	ECE	project	8:10	2:00	
0		31/3/21	171FA05340	ECE	coding	8:10	2:00	
5		31/3/21	171FA05298	ECE	coding	8:10	2:00	
		31/3/21	171FA05009	ECE	Project	8:10	1:00	
30		31/3/21	171FA05066	ECE	Project	8:10	1:00	
30		31/3/21	171FA05097	ECE	Project	8:10	1:00	
0		31/3/21	Dr. N. Vaithiyanathan	ECE	Research work	2:00pm	5:00pm	
0								
0								
0								
pm								

Date	Redg no	Dept	Purpose	Timing in	Timing out	Signature Date	Re
29/3/21	171FA05313	ECE	Learning about Sensors	8:30	12:00	30/3/21	1:
29/3/21	171FA05286	ECE	learning about Sen	8:30	12:00	Kavya 30/3/21	1:
29/3/21	171FA05339	ECE	Learning about Sensors	8:30	12:00	Ahalya 30/3/21	1:
29/3/21	171FA05340	ECE	learning about Sensors	8:30	12:00	Harika 30/3/21	1:
29/3/21	171FA03298	ECE	learning about Sensors	8:30	12:00	Shiva 30/3/21	1
29/3/21	171FA05082	ECE	learning about Sensors	8:30	12:00	manasa 30/3/21	1:
			25/3/21			30/3/21	17
						30/3/21	171
25/3	171FA05176	ECE	Developing code	8:30	12:30	M 30/3/21	171
25/3/21	171FA05278	ECE	"	"	12:30	30/3/21	176
25/3/21	171FA05214	ECE	Developing code	8:30	12:30	30/3/21	17
25/3/21	171FA05177	ECE	Developing code	8:30	12:30	30/3/21	17
25/3/21	171FA05163	ECE	Developing code	8:30	12:30	30/3/21	17
25/3/21	171FA05133	ECE	Tree climbing robot	8:10	12:30	30/3/21	171
25/3/21	171FA05137	ECE	"	8:10	12:30	30/3/21	Dr
25/3/21	171FA05D79	ECE	"	8:10	12:30	31/3/21	0
25/3/21	Bhargavi	ECE	MOKULAB, Spectrum Analyser	1:00pm	4:00	31/3/21	
25/3/21	M. Rajyalakshmi	ECE	Switching LabVIEW	2:00pm		31/3/21	1
25/3/21	Manasa	ECE	Developing code	1:00pm	3:50	31/3/21	
25/3/21	Harika	ECE	"	1:00	3:50	31/3/21	1:
25/3/21	Sivaramakrishna	ECE	"	1:00	3:50	31/3/21	17
25/3/21	M. Aparna	ECE	MOKULAB, SA	1:00	4:00	31/3/21	17
			27/3/21			31/3/21	1:
27/3/21	Pinea Bhavani	ECE	IOT project, DOB	9:00	1:30	31/3/21	1:
28/3/21	N. Brahmani	ECE	IOT project	9:00	1:30	31/3/21	1
27/3/21	D. Mounika	BME	Protect	9:40	1:30	31/3/21	D
29/3/21	T. Sai sumani	BME	"	"	1:30	T.	
28/3/21	K. Bala	ECE	Project	11:00	3:00		
28/3/21	T. Chandana	ECE	Project	11:00	3:00	T. Chandana	
29/3/21	M. Pavankumar	ECE	Research	11:00Am	4:00pm		

t	signat	Date	Regd.No/Name	Dept	Purpose	Timing in	Timing out	signat
10	Kesh	22/3/21	171FA05095	ECE	PPt	8:15	3:30	
10	Abhaya	22/3/21	171FA05128	ECE	PPt	8:15	3:30	T.Chand
20	Santosh	23/3/21	D. Gopi	ECE	Thermometer	8:15	12:20	
0	main	23/3/21	171FA05214	ECE	PPT	8:15	12:30	Keerthi
0	Hariharan	23/3/21	171FA05229	ECE	PPT	8:15	12:30	
00	Sign	23/3/21	171FA05133	ECE	Tree climbing robot	8:15	10:00	
00	P. Tabi	23/3/21	171FA05272	ECE	PPT	8:15	11:00	
		23/3/21	171FA05254	ECE	PPT	8:15	12:30	Padmaja
30	Rakesh	23-2-21	171FA05177	ECE	ppt	8:15	12:30	Sivaram
		23-2-21	171FA05249	ECE	ppt	8:15	12:30	Gopi
30	Phani	23-2-21	171FA05163	ECE	Tree climbing robot	8:15	12:30	
	Ramesh	23-3-21	171FA05217	ECE	project	9:00	1:00	
30		23-3-21	171FA05137	ECE	ppt	8:15	10:00	Varuna
30	Vamsi	24/3/21	171FA05133	ECE	tree climbing robot	8:10	9:30	
30		24/3/21	171FA05137	ECE	"	8:10	9:30	
		24/3/21	171FA05079	ECE	"	8:10	10:10	
10	Gopi	24/3/21	171FA05225	ECE	Coding	8:10	12:00	
30		24/3/21	171FA05217	ECE	Basicet	8:10	1:00	
31	Ram	24/3/21	171FA05231	ECE	Basicet	8:10	12:30	
0	Keerthi	24/3/21	Rani Kumari	ECE	Antenna SMA connector Soldering	10:15	10:30	
30	Suresh	24/3/21	A. SRIHARIBABU	EEE	Project (PhD.) - oscilloscope Analysis	10:20	12:30	
30	Paddu	24/3/21	P. Vikay	ECE	project (python)	10:30	11:50	
30	Ravi	24/3/21	171FA05046	ECE	project	10:30	11:50	
0	Sam	24/3/21	171FA05286	ECE	project	08:30	2:30	Kaveya
00	Vasu	24/3/21	171FA05313	ECE	project	08:30	2:30	
	Raaj	24/3/21	171FA05339	ECE	project	08:30	2:30	Akash
30		24/3/21	171FA05082	ECE	project	08:30	2:30	Aruna
10		24/3/21	171FA05340	ECE	project	08:30	2:30	Harika
00		24/3/21	171FA05298	ECE	project	08:30	2:30	
40		24/3/21	Dr. Nagendran	ECE	" "	10:30am	4:00pm	
00								

te	Regd.no/name	Dept	purpose	Timing in	Timing out	signature	Date	Regd.
/21	171FA05286	ECE	Node-Red	11:30	1:00	Kavita	22/3/21	171FA
/21	171FA05339	ECE	Node-Red	11:30	1:00	Akshaya	22/3/21	171FA
/21	171FA05313	ECE	Node-Red	11:30	1:00	Santosh.	23/3/21	D. Ch
/21	171FA05082	ECE	project	11:30	1:00	[illegible]	23/3/21	171F
/21	171FA05340	ECE	project	11:30	1:00	Harikan	23/3/21	171FA
/21	171FA05298	ECE	project	11:30	1:00	[illegible]	23/3/21	171
/21	171FA05049	ECE	project	11:30	1:00	P. Tejasri	23/3/21	171
	SK Thasv	ECE	LabVIEW	1:30	4:00	[illegible]	23/3/21	171F
/21	K. Sree Bhavani	ECE	IOT project	8:20	12:30	[illegible]	23-3-21	171
/21	N. Brahmani	ECE	IOT project	8:20	1'	[illegible]	23-3-21	171F
/21	181A05004	ECE	IoT project	8:20	12:30	[illegible]	23-3-21	171F
/21	171FA05518	ECE	IoT project	8:20	12:30	Sravanthi	23-3-21	171FA
/21	S. Sivaji	ECE	Seminar topic discussion	8:55	12:30	[illegible]	23-3-21	17
/21	V. Indupriya	ECE	PPt	8:00	12:30	Indupriya	24/3/21	17
/21	G. Supriya	ECE	Ppt	8:50	12:30	Supriya	24/3/21	171
/21			22/3/21				24/3/21	17
/21	Gopi. N	ECE	ppt	8:50	12:30	Gopi	24/3/21	17
/21	Sivasai. M	ECE	ppt	8:50	12:30	[illegible]	24/3/21	17
/21	Hema. K	ECE	ppt	8:50	12:30	Hema	24/3/21	17
/21	Keerthi. B	ECE	ppt	8:50	12:30	Keerthi	24/3/21	17
/21	Susan. M	ECE	ppt	8:50	12:30	Susan	24/3/21	A.S
/21	Paddu	ECE	ppt	8:50	12:30	Paddu	24/3/21	P.
/21	Ravi	ECE	ppt	8:50	12:30	Ravi	24/3/21	171
/21	Kishan	ECE	PPt Study	8:30	1:00	Sravi	24/3/21	17
/21	V. Satish	ECE	PPT	8:30	4:00	[illegible]	24/3/21	171
/21	[illegible]	ECE	[illegible]	[illegible]		[illegible]	24/3/21	171
/21	U. Praneeth	ECE	tree climbing robot	8:15	3:30	[illegible]	24/3/21	171
/21	V. Susmitha	ECE	"	8:15	2:10	[illegible]	24/3/21	171
/21	D. Akhil	ECE	"	8:15	12:00	[illegible]	24/3/21	171
/21	D. Tejasri	ECE	SPY Robot	8:15	12:40	[illegible]	24/3/21	Dr.
/21	Ch. Vidya Sai	ECE	PPt	8:15	12:00	[illegible]		

S.No	Signature	Date	Regd.No/Name	Dept	Purpose	Time In	Time Out	Signature
5		18/3/21	171FA05039	ECE	IEEE Paper	8:15	12:30	
30		18/3/21	171FA05238	ECE	IEEE paper	8:15	2:00	
0		18/3/21	171FA05243	ECE	IEE paper	8:15	3:00	
0		18-3-21	171FA05267	ECE	IOT Project	8:30	2:00	
0		18-3-21	171FA05384	ECE	IOT Project	9:00	12:20	
0		18/3/21	171FA05049	ECE	IOT "	8:30	12:30	
0		18/3/21	171FA05344	ECE	"	9:00	"	
0		18/3/21	171FA05099	ECE	"	9:00	"	
30		18/3/21	Bhargav	ECE	CIC, MOKU LAB	1:00	4:00	
0		18/3/21	Dr.R.	ECE	LabVIEW	1:35	4:00	
00		18/3/21	M. Aparna	ECE	MOKU LAB	1:00	4:00	
00		18/3/21	171FA05225	ECE	Coding	3:00	5:00	
20		19/3/21	V. Satish	ECE	Working	8:10	12:00	
20		19/3/21	P. Sree Bhavani	ECE	Working on Femtocore Measure	8:20	12:30	
00		19/3/21	N. Brahmani	ECE	Working	8:20	12:30	
00		19/3/21	V. Ranedh	ECE	Tree climbing robot	8:10	9:30	
0		19/3/21	V. Sumith	ECE	"	8:10	9:30	
0		19/3/21	171FA05276	ECE	IEEE Paper	8:35	9:30	
0		19/3/21	171FA05249	ECE	"	8:35	9:30	
30		19/3/21	171FA05177	ECE	"	8:35	12:20	
0		19/3/21	171FA05176	ECE	"	8:35	12:00	
		19/3/21	171FA05135	ECE	Preparing ppt for 1st review	11:30	1:30	
10		19/3/21	171FA03214	ECE	Preparing PPT for 1st review	11:30	12:30	
0		19/3/21	171FA05254	ECE	"	11:30	1:40	
00		19/3/21	171FA05217	ECE	"	11:30	4:00	
00		19/3/21	171FA05231	ECE	"	11:30	3:10	
30		19/3/21	171FA05122	ECE	"	11:30	2:10	
30		19/3/21	171FA05229	ECE	"	11:30	12:30	
30		19/3/21	171FA05014	ECE	"	11:30	1:40	
30		19/3/21	171FA05272	ECE	"	11:30	2:10	
10		19/3/21		ECE	PCD project soldering	1:20	4:00	

Date	Regd. No/Name	Dept	purpose	Timing in	Timing out	signature	Date	Reg
18-3-21	171FA05267	ECE	Project work	1:30	3:45		18/3/21	171
18/3/21	171FA05183	ECE	Project WORK (IOT)	8:30	10:30		18/3/21	171
18/3/21	171FA05333	ECE	Humidity chamber	8:30	10:00		18/3/21	171
18/3/21	171FA05318	ECE	Humidity chamber	8:30	10:30		18-3-21	17
18/3/21	181LA0560 4	ECE	Humidity chamber	8:30	10:20		18-3-21	171
18-3-21	171FA05267	EEE	IoT Project	8:30	10:10		18/3/21	171
18-3-21	171FA05375	ECE	Python Code	8:30	10:10		18/3/21	171
18-3-21	171FA05217	ECE	Irrigation system	9:00	10:15		18/3/21	171
18-3-21	171FA05222	ECE	Irrigation system	9:00	10:30		18/3/21	17
18-3-21	171FAC5231	ECE	Irrigation system	9:00	10:00		18/3/21	171
18/3/21	171FA05133	ECE	TREE climbing robot	2:20	4:00		18/3/21	
18/3/21	171FA05137	ECE	11	2:30	4:00		18/3/21	6
19/3/21	171FA05375	ECE	Block diagram	8:12	12:20		19/3/21	V
19/3/21	171FA05229	ECE	working of processor	8:15	12:20		19/3/21	P
19/3/21	171FA05360	ECE	IEEE Paper	8:15	4:00		19/3/21	N
19/3/21	171FA05214	ECE	working of Processor	8:15	12:00		19/3/21	V
19/3/21	171FA05277	ECE	working on Image processing	8:25	4:00		19/3/21	V
19/3/21	171FA05333	ECE	Humidity chamber	8:30	4:00		19/3/21	171
19/3/21	171FA05254	ECE	Working on Image Processing	8:30	4:00		19/3/21	171
19/3/21	171FA05135	ECE	working on image processing	8:30	12:30		19/3/21	171
19/3/21	171FA05177	ECE	Working on Water Quality monitoring system	8:30	3:10		19/3/21	171
							19/3/21	17
19-3-21	171FA05276	ECE	11	8:30	4:10		19/3/21	17
19-3-21	171FA05249	ECE	11	8:30	4:10		19/3/21	17
19/3/21	171FA05286	ECE	project	8:30	12:00		19/3/21	17
19/3/21	171FA05339	ECE	project	8:30	12:00		19/3/21	17
19/3/21	171FA05313	ECE	project	8:30	12:00		19/3/21	17
19/3/21	171FA05276	ECE	project	8:30	12:30		19/3/21	17
19/3/21	171FA05318	ECE	Humidity ch	8:30	12:30		19/3/21	17
19/3/21	181LA05004	ECE	Humidity chamber	8:30	12:30		19/3/21	17
19/3/21	171FA05183	ECE	project	8:40	4:00		19/3/21	17

Signature	Date	Regd.No/name	Dept	purpose	Timing in	Timing out	Signature
	15/3/21	Santhosh	ECE	project work	1:30	4:00	Santhosh
	15/3/21	171FA05082	ECE	project work	1:30	4:00	Manas
	15/3/21	171FA05340	ECE	project work	1:30	4:00	Hari
	15/3/21	171FA05098	ECE	project work	1:30	4:00	Shiva
	15/3/21	171FA05049	ECE	project work	1:30	4:00	P.Indu
	15/3/21	171FA05099	ECE	" "	1:30	4:00	Mahe
	15/3/21	171FA05344	ECE	" "	1:30	4:00	Pujith
	15/3/21	G.V.Rao	ECE	Soldering PCB	3:00	4:10	
	16/3/21	171FA05276	ECE	project work	8:45	1:20	
	16/3/21	171FA05177	ECE	"	8:45	12:30	
	16/3/21	171FA05176	ECE	"	8:45	12:30	
	16/3/21	171FA05214	ECE	"	8:45	1:10	
	16/3/21	171FA05272	ECE	"	8:45	1235	
	16/3/21	171FA05173	ECE	"	8:00	9:30	
	16/3/21	171FA05173	ECE	"	8:00	9:30	
	16/3/21	171FA05079	ECE	"	8:00	9:30	
	16/3/21	Dr. Sreenivasa	ECE	LabView	10:00	1:00	
	16/3/21	171FA05375	ECE	Paper writing	11:40	3:45	
	16/3/21	171FA05095	ECE	Project	11:00	4:00	
	16/3/21	171FA05128	ECE	Project	11:00	4:00	
	16/3/21	171FA05173	ECE	Tree climbing robot	11:30	12:30	
	16/3/21	171FA05182	ECE	"	11:30	12:30	
	16/3/21	171FA05079	ECE	"	11:30	12:30	
	16/3/21	171FA05183	ECE	project work	12:40	3:30	
	16/3/21	171FA05333	ECE	Humidity Chamber	12:40	3:30	
	16/3/21	Rani	ECE	Antenna SMA Soldering	2:30	3:00	
	16/3/21	171FA05126	ECE	Antenna SMA Soldering	2:30	3:00	
	16/3/21	171FA05038	EEE	Antenna SMA Soldering	2:30	3:00	
	16/3/21	171FA05049	ECE	Project work	1:30	4:00	
	16/3/21	171FA05099	ECE	"	"	"	
	16/3/21	171FA05344	ECE	"	"	"	

Date	Reg. No/name	Dept	purpose	Timing In	Timing Out	Signature	Date	Regd
13/21	171FA05137	ECE	Tree climbing Robot	2:30	4:00		15/3/21	17
13/21	171FA05133	ECE	Tree climbing robot	2:30	4:00		15/3/21	17
13/21	171FA05079	ECE	Tree climbing Robot	2:30	4:00		15/3/21	17
13/21	S. Sivaji	ECE	DAQ Sensor Testing Chamber	10:10	4:00		15/3/21	17
13/21	M. Aparna	ECE	MOKU	1:30	4:00		15/3/21	17
13/21	Dr. J. N. KHAN	S&H	CIC Equipment demonstration	1.45pm	4:00		15/3/21	17
13/21	B. Venkaiah	chem	"	1.45pm	3.50pm		15/3/21	17
13/21	Dr. Dinkar	chem	"	1:45pm	3:50		15/3/21	17
16/3/21	B. V. Narayana	chem	"	1:45	3:50		16/3/21	171
16/3/21	E. Govindhaiah	mech	"	1:45	3:50		16/3/21	171
16/3/21	N B Prakash T	Mech	"	"	"		16/3/21	171
16/3/21	Dr. N VRV Sikha	ECE	CIC Demonstration	1:30	5:00		16/3/21	171
16/3/21	Dr. S. K. Tiwari	ECE	"	2:00	5:00		16/3/21	171
16/3/21	M. Susan Priya	ECE	Searching IEEE papers	9:00	1:30		16/3/21	17
16/3/21	Y. Ravi	ECE	"	9:00	1:35		16/3/21	17
16/3/21	M. Sivasai	ECE	"	9:00	2:00		16/3/21	17
16/3/21	K. Lavanya	ECE	DAQ	10:40	4:00		16/3/21	Dr. S
16/3/21	G. Sailaja	ECE	Searching on diff sensors	11:30	3:50		16/3/21	17
16/3/21	J. Devi Vasundhara	ECE	searching on IEEE Papers	11:30	4:00		16/3/21	171
16/3/21	K. Rickey	ECE	Analysis of raspberry pi	11:30	4:00		16/3/21	171
16/3/21	M. Akhil	ECE	Reading about sensors	11:30	3:50		16/3/21	17
16/3/21	K. Manoj	ECE	Reading about sensors	11:30	3:00		16/3/21	17
16/3/21	G. Santosh	ECE	Reading about GSM	11:30	4:00		16/3/21	17
16/3/21	P. Nikhitha	ECE	Reading about GSM	11:30	4:00		16/3/21	17
15/3/21	S. Kishan	ECE	Writing about others	1:30	4:00		16/3/21	171
15/3/21	Chiranjeevi	ECE	Project work	1:30	2:50		16/3/21	17
15/3/21	Y. Sasank	ECE	Project work	1:30	2:50		16/3/21	17
16/3/21	A. Harsha	ECE	Project work	1:30	3:30		16/3/21	17
15/3/21	G. Sai Ram	ECE	project work	1:30	3:10		16/3/21	171
15/3/21	G. Kavya	ECE	project work	1:30	3:00		16/3/21	171
15/3/21	V. Ahalya	ECE	project work	1:30	4:00		16/3/21	171

	signature	Date	Regd-No/ name	dept	purpose	Timing in	Timing out	signature
1	J.Ravi	8/3/21	171FA05332	ECE	Humidity chamber	1:30	3:30	
		8/3/21	171FA05183	ECE	System used	1:30	3:30	N.Anal
1		8/3/21	171FA05733	ECE	Tree climbing robot	2:00	5:00	
1		8/3/21	171FA05137	ECE	Tree climbing robot	2:00	4:00	
2		8/3/21	171FA05079	ECE	Tree climbing robot	2:00	4:00	
10		8/3/21	171FA05225	ECE	Working on GSM	8:10	4:00	
1		8/3/21	171FA05263	ECE	Working on GSM	8:10	4:00	
01		8/3/21	171FA05128	ECE	Working on sensors	8:10	4:00	
		9/3/21	171FA05286	ECE	Node-Red.	8:10	2:45	
10		9/3/21	171FA05339	ECE	Node-Red	8:10	2:45	
0		9/3/21	171FA05313	ECE	Node-Red	8:10	2:45	
5	G.Kavya	9/3/21	171FA05375	ECE	Raspberry Pi interface	8:15	12:15	
	Ahalya	9/3/21	171FA05384	ECE	Raspberry Pi interface	8:20	4:00	
1	Santhosh	9/3/21	171FA05318	ECE	Humidity chamber	8:30	4:00	
		9/3/21	181LA05004	ECE	Humidity chamber	8:30	4:00	
		9/3/21	171FA05214	ECE	Working on floor cleaning robot	8:30	4:00	
2	Sirisha	9/3/21	171FA05229	ECE	Working on floor cleaning Robot	8:30	4:00	
2	Richa	9/3/21	171FA05217	ECE	Smart Irrigation System	8:30	4:00	
2		9/3/21	171FA05176	ECE	Water Quality level Indicator	8:30	4:00	
1		9/3/21	171FA05254	ECE	Working on floor cleaning Robot	8:30	4:00	
0		9/3/21	171FA05249	ECE	"	8:30	4:00	
1	V.Sridevi	9/3/21	171FA05276	ECE	"	8:30	4:00	
1		9/3/21	171FA05277	ECE	"	8:30	4:00	
1	M.Srivasi	9/3/21	171FA05039	ECE	sensors	7:00 ~~8:30~~	4:00	
2	P.Inbiya	9/3/21	171FA05360	ECE	sensors	7:00	4:00	
0		9/3/21	171FA05272	ECE	Floor cleaning Robot	9:00	4:00	
0		9/3/21	171FA05049	ECE	Arduino	8:00	3:30	P.Inbiya
0		9/3/21	171FA05344	ECE	Arduino	8:00	3:30	
1	M.Swapna	9/3/21	171FA05340	ECE	Arduino	8:00	2:45	
0		9/3/21	171FA05298	ECE	Arduino	9:00	2:45	
		9/3/21	171FA05082	ECE	Arduino	9:00	2:45	

Date	Regd.No/ Name	Dept	purpose	Timing in	Timing out	signature	Date	Reg
3/21	191FA05092	ECE	Lab View	1:35	4:00	J.Ravi	8/3/21	17
3/21	191FA05079	ECE	Lab View	1:35	4:00	A	8/3/21	17
3/21	191FA05093	ECE	Lab view	1:35	4:00		8/3/21	171
3/21	191FA05110	ECE	Lab View	1:35	4:00	Venkat	8/3/21	17
3/21	191FA05119	ECE	Lab view	1:35	4:00	Rakesh	8/3/21	17
3/21	191FA05127	ECE	Lab view	1:35	4:00		8/3/21	17
3/21	191FA05097	ECE	Lab View	1:35	4:00	Bhavisha	8/3/21	17
3/21	191FA05076	ECE	Lab View	1:35	4:00		8/3/21	17
3/21	191FA05077	ECE	Lab view	1:35	4:00		9/3/21	17
3/21	191FA05075	ECE	Lab view	1:35	4:00		9/3/21	17
3/21	191FA05104	ECE	Lab view	1:35	4:00		9/3/21	17
3/21	171FA05286	ECE	project (Node-Red)	8:30	12:15	G.Kavya	9/3/21	17
3/21	171FA05339	ECE	Node-Red	8:30	12:15	Ahalya	9/3/21	17
3/21	171FA05313	ECE	Node-Red	8:30	12:15	Santhosh	9/3/21	17
3/21	171FA05133	ECE	project (Tree climbing)	8:30	1:00		9/3/21	18
3/21	171FA05127	ECE	Project (Tree climbing robot)	8:30	1:00		9/3/21	17
3/21	171FA05375	ECE	Raspberry Pi	8:30	12:30	Shivani	9/3/21	171
3/21	171FA05338	ECE	Raspberry pi	8:30	12:30	Richa	9/3/21	171
3/21	171FA05284	ECE	Working on floor cleaning robot	8:30	4:00		9/3/21	171
3/21	171FA05214	ECE	Working on floor cleaning robot	8:30	4:00	Keerthi	9/3/21	17
3/21	171FA05254	ECE	working on floor cleaning robot	8:30	4:00	Pradeep	9/3/21	17
3/21	171FA05135	ECE	Working on floor cleaning robot	8:30	9:00	V.Sahithya	9/3/21	171
3/21	171FA05276	ECE	Sensors	8:30	12:15		9/3/21	171
3/21	171FA05177	ECE	Sensors	8:30	12:35	M.Sai Vinay	9/3/21	171
3/21	171FA05049	ECE	Arduino	8:30	4:00	P.Sahithya	9/3/21	17
3/21	171FA05099	ECE	Arduino	9:00	4:00		9/3/21	171
	181A05004	ECE	Humidity chamber	9:00	4:00		9/3/21	171
	171FA05318	ECE	Humidity chamber	9:00	4:00		9/3/21	171
	171FA05176	ECE	Sensors	9:00	4:00	M.Swapna	9/3/21	171
	171FA05272	ECE	Floor cleaning robot	9:00	4:00		9/3/21	17
	K-Lavanya	ECE	Project guiding	9:00	12:30		9/3/21	171
9/3/21	Dr. N V Krishna	ECE	Research/Project Guide	10:30	12:30pm			

signature	Date	Regd.No/name	Dept	purpose	Timing in	Timing out	signature
G.Kavya	6/3/21	S.Kishan	ECE	IoT Project	1:30	4:10	
Santhosh	6/3/21	Sai Gayathri	ECE	IoT Project	1:30	3:10	
Ahalya	6/3/21	D.	ECE	Online SMA connected soldering	1:40	2:00	
Sivaja	7/3/21	N. Santhosh	ECE	Learning about Node Red soft	8:10	2:00	
Rao	7/3/21	G. Kavya	ECE	Learning abat node red soft	8:10	2:00	
Sai	7/3/21	Ahalya	ECE	Learning abat node red soft	8:10	2:00	
V.Sukru	7/3/21	K Pitchaiyamma	ECE	Learning about Raspberry IOT Project software	8:10	2:50	
Jeya	7/3/21	G. Yamini Sudha	ECE	learning about Sensors	8:100	3:10	
Bhavitha	7/3/21	B. Keerthi	ECE	learning about sensor for IOT project	8:10	3:00	
Rajagopal	7/3/21	S. Kishan	ECE	Raspbian	8:10	2:40	
P Padmaja	7/3/21	N. Brahmani	ECE	IOT project	8:20	2:00	
V. Indupriya	7/3/21	P Sree Bhavani	ECE	IOT project	8:20	3:30	
G	7/3/21	V. Praneeth	ECE	Iot project	8:20	2:10	
P	7/3/21	V. Sumitra	ECE	Iot project	8:20	2:10	
D	7/3/21	D. akhil	ECE	Iot project	8:40	2:10	
Rishy	7/3/21	G. Sabash	ECE	learning about Raspberry Pi	8:20	3:00	
Divya	7/3/21	V. Indupriya	ECE	learning about sensors/Uno	8:20	4:00	
Pavithra	7/3/21	P Sree Bhavani	ECE	Humidity chamber, DAS	8:20	12:30	
P	7/3/21	P. Padmaja	ECE	learning about sensors	8:20	4:00	
Jeevan	7/3/21	J.D. Vasundhara	ECE	Codes compilation	8:20	2:00	
Akhil	7/3/21	S. Mohith Sai	ECE	Humidity chamber	8:40	4:00	
Chandu	7/3/21	Y. Pujitha	ECE	Arduino	8:40	4:00	
Y. Pujitha	7/3/21	P. Intiya Z	ECE	Arduino	8:40	4:00	
P. Intiya	7/3/21	N. Sumanth	ECE	Humidity chambes, DAS	8:50	4:00	
Y	7/3/21	Y. Hoswanth	ECE	Humidity chamber, DAS	8:50	4:00	
Mohit	7/3/21	Mr. S. Maharshi	ECE	Arduino	8:50	4:00	
Raj	7/3/21	Dr. NVKV Kiran G	ECE	Humidity chamber, DMM	10:20	11:30	
Kishan	7/8/21	M. Sekhar	ECE	Masibus	10:20	01:00	
Sai	7/3/21	B. Hemanth	ECE	Lab View	1:35	4:00	
Sabarinathan	7/8/21	M. Sabarinathan	ECE	Lab View	1:35	4:00	
Ahmed	7/3/21	A. Ahmed	ECE	Lab View	1:35	4:00	

Date	Regd.no/ name	Dept	Purpose	Timing in	Timing out	signature
3/21	G.Kavya	ECE	IOT project	8:45	12:00	G.Kavya
3/21	N.Santhosh	ECE	IOT project	8:45	12:00	Santhosh
3/21	Ahalya	ECE	IOT project	8:45	12:00	Ahalya
3/21	G.Supraja	ECE	IOT Project	8:45	4:10	Supraja
3/21	R. Keerthi	ECE	IoT Project	8:45	4:05	Keerthi
3/21	Shiva Sai	ECE	IOT Project	8:45	3:40	Sai
3/21	V. Shanthamani	ECE	IOT project	8:45	4:00	V.Shanthamani
3/21	Teja Sai dasari	ECE	IOT Project	8:45	4:10	Teja
3/21	P. Bharathi	ECE	IOT project	8:45	3:00	P.Bharathi
3/21	Ch.Nitya sai	ECE	IOT project	8:45	3:30	Nityasai
3/21	P.Padmaja	ECE	IOT project	8:45	3:50	P.Padmaja
3/21	Vajrala.Indupriya	ECE	IOT Project	8:45	4:00	V.Indupriya
3/21	G.Sandesh	ECE	IOT Project	8:45	3:45	G.Sandesh
3/21	P. Nikhila	ECE	IOT Project	8:45	3:45	P.Nikhila
3/21	M.Jagadeesh	ECE	IOT Project	8:45	4:00	M.Jagadeesh
3/21	Ricky	ECE	IOT Project	8:45	4:15	Ricky
3/21	Supriya	ECE	IOT Project	8:45	4:00	Supriya
3/21	Ravikiran	ECE	IOT project	8:45	4:00	Ravikiran
3/21	U. Praneeth	ECE	IOT project (tree climbing)	8:45	12:30	U.Praneeth
3/21	Vasumitha	ECE	IOT project (Tree climb)	8:45	12:30	Vasumitha
3/21	D. Akhil.	ECE	IoT Project (Tree climbing)	8:45	12:30	Akhil
3/21	Ch.Sitya sai	ECE	IoT Project	8:45	12:30	Ch.Sitya sai
3/21	Y. Pavitra	ECE	IOT Project	8:45	3:30	Y.Pavitra
3/21	P. Intiyaz	ECE	IOT project	8:45	3:30	P.Intiyaz
3/21	M.Brahmani	ECE	IOT project	9:00	2:10	M.Brahmani
3/21	S.Mohith sai	ECE	IOT project	9:00	3:00	Mohith
3/21	P.pavan	ECE	IOT project	9:00	4:10	P.pavan
3/21	S.Kishan	ECE	IoT Project	8:45	12:30	Kishan
3/21	Sai Gayathri	ECE	IoT Project	8:45	12:30	Sai
3/21	U. Praneeth	ECE	IoT project	1:30	2:00	U.Praneeth
3/21	V. Sumitha	ECE	IoT project	1:30	2:00	V.Sumitha

Date	Regd
6/3/21	S
6/3/21	S
6/3/21	C
7/3/21	M
7/3/21	
7/3/21	
7/3/21	
7/3/21	
7/3/21	B
7/3/21	
7/3/21	N
7/3/21	P.S
7/3/21	U.
7/3/21	U.
7/3/21	D.
7/3/21	G.
7/3/21	V.
7/3/21	P.
7/3/21	P.
7/3/21	J.
7/3/21	S.M
7/3/21	Y.
7/3/21	P.
7/3/21	N.
7/3/21	Y.
7/3/21	M.
7/3/21	P
7/8/21	M
7/3/21	B.
7/8/21	M.
7/3/21	A.

	sign	Date	Regd no/Name	Dept	Purpose	Timing in	Timing out	sign
9	Mallika	4/3/21	B.Mallika	ECE	RF & Microwave Project	10:30	12:00	Mallika
10		4/3/21	T.Chandana	ECE	"	"	12:00	Chandana
20		4/3/21	P.Shivani	ECE	"	"	1:00	
10		4/3/21	K. Shivani	ECE	"	"	2:00	
9		4/3/21	P. Sree Rhamii	ECE	cyber Networking System	10:30	3:00	Psree
100		4/3/21	N. Brahmani	ECE	cyber Networ System	10:20	3:00	
0		4/3/21	S. Kishan	ECE	IOT	10:30	12:30	S.Kishan
0		4/3/21	A. Sai Gayathri	ECE	iot	10:30	1:00	Sai
0		4/3/21	Vasundhra	ECE	IOT	10:30	2:00	Vasundhra
20		4/3/21	Nazma	ECE	IOT	10:30	2:00	
30		4/3/21	Soumya	ECE	IOT	10:30	5:00	Soumya
0		4/3/21	Sufraja	ECE	IOT	10:10	1:00	Sufraja
100		4/3/21	Keerthi	ECE	IOT	10:10	2:00	
5		4/3/21	Padmaja	ECE	IOT	10:50	3:00	Padmaja
30		4/3/21	Sivasri	ECE	IOT	10:50	2:00	Sivasri
20		4/3/21	Indupriya	ECE	IOT	10:50	4:00	Indupriya
0		4/3/21	Tejasai	ECE	IOT	10:50	2:00	Tejasai
		4/3/21	U. Praneeth	ECE	IoT project	11:15	12:30	U. Praneeth
1		4/3/21	D. Akhil	ECE	IoT project	11:15	12:30	Akhil
0		4/3/21	V. sumitha	ECE	IoT project	11:15	12:30	
50		4/3/21	G. Santosh	ECE	IOT	11:15	1:00	
2		4/3/21	M. Jagadeesh	ECE	IOT	11:15	2:00	
5		4/3/21	P. Nikhitha	ECE	IOT	11:15	3:00	
5		4/3/21	Ricky	ECE	IOT	11:15	3:00	Ricky
8		4/3/21	Y. Pujitha	ECE	IOT	2:15	4:30	Pujitha
		4/3/21	M. S. Maharshi	ECE	IoT	2:15	5:00	
30		4/3/21	Mohitha S	ECE	IOT - Project (H.M.S)	2:15	5:00	Mohitha
30		4/3/21	Dr. R. Ranjith	ECE	LabVIEW	1:35	4:00	
0	Santhosh.							
0								
20								

e	Regd-no/name	Dept	purpose	Training in	Training out	signature	Date	Regd-no
21	M.Sethay	ECE	DAQ	10:00	1:00		4/3/21	B.Ma
		ECE	Antenna SMA connector soldering	1:30	2:00		4/3/21	T.cho
2	Dr.S.C.Tiwari	ECE	LabView	1:35	4:20		4/3/21	P.Shi
/2	Mr.S Sivaji	ECE	flex sensor textile & Thermocouple	10:15am	12:40		4/3/21	K. Shi
	Ms.Sekab	ECE	Spectrum analyzer	1:35	4:00		4/3/21	P.Sree
	K.Lavkeja	ECE	DAQ,	8:20am	5:00pm		4/3/21	N.Bh
	Dr.R.Ranjan	ECE	LABVIEW	10:05am	12:30		4/3/21	S.Kish
	Bharyav	ECE	Spectrum Analyser	12:40	4:50		4/3/21	A.Sai
	Bharyav	ECE	Spectrum Analyzer	4:40	8:00		4/3/21	Vasun
	Dr.T.Pitchaiah	ECE	mode 4: Lab — Labview app	5:45	8:00		4/3/21	Nazm
3	S.Sivaji	ECE	DAQ serial interface (loadcell)	9:45	12:30		4/3/21	Sasir
	Dr.S.C.Tiwari	ECE	Labview	10:05	12:30		4/3/21	Sufia
	Dr.NVRaikar	ECE	Research University DM Media	11:05	12:50pm		4/3/21	Kee
/21	D.Balaji	ECE	Lab view	2:20	3:35		4/3/21	Padm
i	T.Chandana	ECE	Lab view	2:20	3:35		4/3/21	Sivasa
21	K.Balaji	ECE	Lab view	10:05	5:00		4/3/21	Indupri
1	Y.Pushpa	ECE	lab view	10:05	12:00		4/3/21	Tejas
21	M.Cos.Maharshi	ECE	lab view	10:05	11		4/3/21	U.Pran
H	S.Mohit Sai	ECE	Final year project	10:05	12:35		4/3/21	D.AK
(d	Pavan	ECE	Final year project	10:05	1:00		4/3/21	V.Su
21	N.Brahmani	ECE	Final year project	10:05	12:50		4/3/21	G.San
/2	Dr.NVRajarao	ECE	Humidity chamber testing	10:05	5:00pm		4/3/21	QM.
4	S.Sivaji	ECE	DAQ for pressure	11:15	12:45		4/3/21	P.i
a		ECE	Antenna SMA connector soldering	7:00	7:45		4/3/21	R.i
21	Bharyav	ECE	MOKU LAB: Liquid Sensing	10:05	12:38		4/3/21	Y.Pu
1	M.Aparna	ECE	MOKU LAB	10:05	12:38		4/3/21	M.C.S
21	G.Kavya	ECE	IOT project	10:30	12:30		4/3/21	Mo Kid
	Ahalya	ECE	IOT project	10:30	12:30		4/3/21	Dr.R.Ra
1	Santhosh	ECE	IOT project	10:30	12:30			
21	Sunpraveen	ECE	IOT Project	10:30	1:00			
21	K.Balaji	ECE	RF project-II	10:30	4:00			

signature	Date	Regd.No/ Name	Dept	purpose	Timing in	Timing out	signature
	15/2/21	Dr. NVRVikrama	ECE	measurement of resistance	12:45	3:00pm	
	15/2/21	G.V. Rao	ECE	PCB soldering work	3:10	4:40	
	17/2/21	Mr. S. Sivaji	ECE	To study DAQ manual	10:10	1:00pm	
	17/2/21	Dr. N. Usha	ECE	NI ELVIS II function	8:35	4:20	
	18/2/21	Dr. Rajesh	ECE	Driver Fabrication Soldering	11:00	11:30	
	18/2/21	Bhargav	ECE	Waveform generator, MSO, SA	10:05	12:25	
	18/2/21	M. Aparna	ECE	Waveform Generator, MSO, SA	10:05	12:00	
	18/2/21	Dr. S.K. Tiwari	ECE	DAQ,	10:05	12:30	
	18/2/21	Dr. NVRVikram	ECE	DMM	10:05	12:30	
	18/2/21	P. Krishna Chaitanya	EEE	Spectrum analysis	10:20	11:40	
	18/2/21	M. Nagarjuna	Mech	Research work (Force Sensor)	1:30	2:30	
	19/2/21	D. Raju	ECE	Gigbe Antenna Connector SMA Soldering	11:30	12:00	
	18/2/21	Dr. R. Ranganayakulu	ECE	DAQ	1:35	4:00	
	19/2/21	M. Selchar	ECE	Spectrum Analyzer	10:00	1:00	
	19/2/21	Dr. S.K. Tiwari	ECE	Labview work	11:30	5:00	
	20/2/21	S. Sivaji	ECE	Vivado Spectrum software installation	10:20	12:30	
	20/2/21	MKC Rao	ECE	Waveform Generator	1:45	3:30	
	20/2/21	M. Aparna	ECE	Waveform Generator, MSO, SA	1:30	4:00	
	22/2/21	K. Lova Raju	ECE	DAQ	10:05	12:30	
	22/2/21	D. Raju	ECE	Antenna SMA Connector Soldering	10:20	10:50	
	22/2/21	Dr. R. Ranganayakulu	ECE	LabVIEW	10:05	12:30	
	23/2/21	Dr. S.K. Tiwari	ECE	Labview	10:05	12:30	
	23/2/21	Dr. NVRVikram	ECE	Keithley DAQ	1:35	4:05	
	24/2/21	D. Raju	ECE	Antenna SMA Connector Soldering	10:00	12:00	
	24/2/21	S. Sivaji	ECE	DAQ Software installation	10:05	12:30	
	25/2/21	Dr. NVRVikram	ECE	DMM	10:05	12:30	
	25/2/21	Bhargav	ECE	Spectrum Analyzer, Waveform Generator, MSO	1:45	4:00	
	25/2/21	M. Aparna	ECE	SA, Waveform Generator, MSO	1:35	4:00	
	25/2/21	Dr. R. Ranganayakulu	ECE	NI DAQ, DAQ 6510	1:35	3:55	
	25/2/21	Dr. NVRVikram	ECE	DMM	1:45	4:30pm	

ate	Regd-No/ name	Dept	purpose	Timing in	Timing out	signature	Date	Reg
2/2/21	G. Chitti Babu	Mech	Research	10:00	11:00			
"	B. Sunil Tej	BME	Research	10:00	11:00		15/2/21	Dr.
"	P. Pavani	civil	Research work	10:00	11:00		15/2/21	C.V.
"	G.V. Rao	ECE	Soldering	12:00	1:00		17/2/21	
"	DR. N. Vikram	ECE	Research work	6:00	6:00		17/2/21	Dr
8/2/21	G.V. Rao	ECE	Soldering	8:30	9:10		18/2/21	
"	P. Pavani	civil	Research work	10:00	12:00		18/2/21	
"	B. Sunitej	BME	Research work	10:00	11:00		18/2/21	M
"	Dr. N. Vikram	ECE	Research work	10:00	11:00		18/2/21	Dr.
"	K. Leela Raju	ECE	Research work	11:00	5:00pm		18/2/21	Dr.
9/2/21	M. Sekhar	ECE	Research work	9:00	01:00		18/2/21	P.Kv
"	B. Sunil Tej	BME	Research work	9:00	10:00		18/2/21	M.
"	Logi Naidu	ECE	Research	10:00	4pm		19/2/21	
"	K. Lova Raju	ECE	Research	9:00am	8:00pm		18/2/21	Dr.R
"	[illegible]	ECE	SMT Component Soldering	11:00	12:00		19/2/21	M.
11/2/21	K. Lova Raju	ECE	Research	8:20am			19/2/21	Dr.
"	Mr. S. Sivaji	ECE	Students demo	9:20	12:00		20/2/21	S.
"	Dr. N.V.K. Vikram	ECE	Research	2:00pm	4:00pm		20/2/21	MK
2/2/21	Dr. N.V.K. Vikram	ECE	DMM	9:30AM	12:00pm		20/2/21	M
2/21	Dr. S.K. Tiwari	ECE	Lab view DAQ	1:30	4:00		22/2/21	K
"	Mr. S. Sivaji	ECE	- DAQ	1:30	2:30		22/2/21	
"	Dr. Venkateswara Rao	Bio Med	Research work	2:30	4:30		22/2/21	Dr.
2/2/21	[illegible]	ECE	SMT Soldering	9:00	10:00		23/2/21	Dr
"	A. Venkat Ramana	Civil	Bridge work	12:20	2:10		23/2/21	Dr.
2/2/21	G.V. Rao	ECE	Soldering PCB work	4:00	5:10		24/2/21	
4/2/21	Mr. S. Sivaji	ECE	Students Demo	4:00	5:00pm		24/2/21	S
5/2/21	Dr. N.V.K. Vikram	ECE	Research work	10:30am	12:30pm		25/2/21	Dr.
"	Mr. S. Sivaji	ECE	Demonstration to students	10:45	1:30pm		25/2/21	K
5/2/21	M. Sekhar	ECE	Research	1:30	4:00	Meeting	25/2/21	
"	Mr. S. Sivaji	ECE	Mini project	1:45	2:30		25/2/21	Dr. K
"	G.V. Rao	ECE	Soldering	2:40	3:10		25/2/21	Dr.

Signature	Date	Regd.No/Name	Dept	Purpose	Time in	Time out	Signature
	28/1/21	Mr.S.Sivaji	ECE	Sensor design	9:30	10:30	
	"	Dr.N.V.R.Vikram	ECE	Research work	11:00	1:00	
	"	P.Pavani	civil	Research work	1:00pm	2:00pm	
	29/1/21	K.muralidhar	Biotech	Research work	3:40pm	5:10	
	29/1/21	G.Chitti Babu	Mech	Research work	10:00	12:00	
	29/1/21	B Sunil ty	BME	Research work	10:00	12:10	
	"	G.V.Roa.	ECE	Soldering	10:00	12:00	
	30/1/21	K. Lova Raju	ECE	Research	3:00 Pm	6:30 pm	
	"	Dr.N.V.R.Vikram	ECE	Research work	10:00Am	12:45	
	"	K.muralidhar	BT	Research work	3:30pm	4.30	
		Mr.Sivaji	ECE	Soldering work	3:00pm	4:00pm	
	1/2/21	K. Lova Raju	ECE	Research	9:00 Am	8:00pm	
	"	Mr.S.Sivaji	ECE	(NRF 24 modulation)	10:30Am	11:30	
	"	M.Aradha Rao	ECE	Research	10:30Am	11:30	
	"	B.Sunil ty	BME	Research work	10:30am	11:30	
	"	Sai teja.	civil	project	11:00Am	12:00pm	
	2/2/21	K. Lova Raju	ECE	NRF modelletesing	8:30m	9:15	
	3/2/21	K. Lova Raju	ECE	NRF 24 GHz Module	8:50	9:50pm	
	"	B. Sunil ty	BME	Research work	8:30	9:50p	
	"	N. Srikantha	ECE	Research work	9:00Am	10:00Am	
	04/2/21	P. Pavani	civil	Research	10:00	12:00	
		B.Sunil Tej	BME	Research	11:00	12:00	
		P.Satish	civil	Research	11:00	12:00	
		Shankar	civil	Soldering	11:00	12:00	
	5/2/21	G. chitti Babu	Mech	Research	9:00	11:00	
		P. Pavani	civil	Research	10:00	12:00	
		Venkat	Mech	Research	10:00	11:00Am	Venkat
		G.V. Roa	ECE	Research	10:00	11:00Am	
	6/2/21	K. Lova Raju	ECE	Research	9:00Am	9:15pm	
		Mr.S.Sivaji	EE	NRF 24 modulation	10:20Am	11:30	
		Dr NVRVikram	ECE	Research	11:00m	3:00m	

Date	Regd no/ Name	Dept	Purpose	Time in	Time out	Signature	Date	Re
8/1/21	Dr. S.K. Tiwari	ECE	Research work.	12:00	3:00pm		28/1/21	M
8/2/21	G.V. Rao	ECE	project work Soldering	2:45	4:40		"	D
2/1/21	Dr. NVR Vikram	ECE	Research work	1:00	3:30pm		"	P.
	Mr. S. Sivaji	ECE	NRF24 testing	2:30	3:40		29/1/21	K.
	G. Chitti Babu	Mech	Research work	8:00	5:00		29/1/21	G.
	B. Sunil tej	BME	Research work	8:00	5:00		29/1/21	B
	P. Parani	civil	Research work	8:00	5:0		"	
1/21	Mr. S. Sivaji	ECE	Research work	8:45	9:35		30/1/21	K
	Amada Rao	ECE	Research work	8:45	9:35		"	D
	G.V. Rao	ECE	Soldering work	8:45	9:45		"	K.
	B. Sunil Tej	BME	Research work	9:00	10:00Am			MR
1/21	Mr. S. Sivaji	ECE	NRF24 module testing	9:15	12:30		1/2/21	K.
	P Parani	Civil	Research work	10:00	1:00		"	P
	G. Chittibabu	MECH	Research work	8:00	5:0		"	M
	Dr. NVR Vikram	ECE	Research work	8:00	5:00		"	B.
	Balakrishna	ECE	Research work	8:00	5:00		"	S.
2/1/21	Dr. NVR Vikram	ECE	Research	9:45	11:00		2/2/21	K
	P. parani	civil	Research work	10:00	1:00		3/2/21	K
	Sivaji	ECE	Research work	10:00	11:00		"	B.
3/1/21	B Sunil Tej	ECE	for checking Earth leakage	10:25	12:30		"	N.
	G. Chitti Babu	Mech	Research work	11:00	1:00		04/2/21	P.
	M. Srikanth	civil	Research work	11:00	1:00			B.
	Kiran Raju	ECE	Research work	11:00	9:00pm			P.
5/1/21	Mr. S. Sivaji	ECE	Research work	8:45	9:45			S
	B. Sunil Tej	BME	Research work	8:45	9:45		5/2/21	G.
"	G.V. Rao	ECE	Soldering work	3:00	5:10			P.
7/1/21	M. Sekhar	ECE	Research work	10:0	12:00			V
	G. Chitti Babu	Mech	Research work	11:00	1:00			G.
	B. Sunil Tej	BME	Research work	9:00	12:00		6/2/21	K.
	P. Parani	Civil	Soldering	11:00am	12:00pm			M
								D

Signat	Date	Regd.NO/Name	DEPT	PURPOSE	Time IN	Time OUT	Last
	7/1/21	D. Ravi	ECE	Online SMT Soldering	1:50	2:00	
	7/1/21	G.V.Rao	ECE	Soldering	3:30	4:40	
	8/1/21	191FA05238	EEE	project work	3:30	4:00	V.Dev
	8/1/21	191FA05249	ECE	project work	3:30	4:00	M.Prat
	8/1/21	201FA05002	EEE	Project work	3:30	4:00	P.Sam
	8/1/21	191FA05271	ECE	Project work	8:30	4:50	
	8/1/21	191FA05231	ECE	Project work	8:30	4:50	T.Sa
	8/1/21	191FA052	ECE	Project work	3:30	4:50	
	8/1/21	191FA05220	ECE	Project work	3:30	4:50	K.Kan
	8/1/21	191FA05218	ECE	Project work	3:30	4:50	G.Vani
	8/1/21	191FA052	ECE	project work	3:30	4:50	K.Sand
	8/1/21	191FA05245	ECE	project work	3:30	450	M.Gaut
	8/1/21	191FA05242	ECE	project work	3:30	4:50	Rish
	9/1/21	201FA05002	ECE	Project work	8:00	9:00	
	9/1/21	191FA05249	ECE	Project work	8:00	9:00	M.Pra
	9/1/21	191FA05238	ECE	Project work	8.00	9:00	V.Dev
	11/1/21	M.Selchar	ECE	Research	9:00	12:00	
	11	Mr. S. Srivalli	ECE	"	10:30	12:30	
	10/1/21	G. Chitti Babu	Mech	Research	9:00	11:00	
	11/1/21	B. Sunil Kej	BME	Research	10:00	11:00	
	"	P. Pavani	Civil	Research	11:00	12:00	
	11	Bala krishna	EEE	Soldering	12:00	1:00	
	"	Mr. S. Srivalli	ECE	Seed Design	1:30	3:00pm	
	12/1/21	P. Pavani	Civil	Research	10:00	12:00	
	11	Mr. S. Srivalli	ECE	Signal Conditioning	11:00	12:30	
	12/1/21	B. Sunil kej	BME	Soldering	11:00	12:00	
	12/1/21	G.V.Rao	ECE	Research	9:00	11:00	
	18/1/21	N. Anandarao	ECE	Research	10:00	11:00	
	18/1/21	M Selchar	ECE	Research	10:30	12:00	
	8/1/21	Dr N V Krishna Rao	ECE	Research work	10:30	1:00pm	

Date	Regd no/Name	Dept	Purpose	Time in	Time out	signat
6/12/2021	P. Pavani	Civil	Research	9:00	11:00	
28/12	Balakrishna	EEE	Research work	11:20	1:00	
30/12	Dr. NVRV Kiran	ECE	Research	3:30	4:30	
11	Dr. Venkateswarlu	Bio Tech	Research	3:40	5:10	
12/2020	Venkat Ramana	Civil	Project	9:00	11:30	
12/20	Dr. K. Muralidhar	Bio Tech	Research work	10:00	12:00	KM
11	P. Pavani	Civil	Research	12:00	2:00	
11	Dr. NVRV Kiran	ECE	Research work	13:30	15:30	
-01-21	S. Sivaji	ECE	Research work	9:00Am	11:30Am	
11	G. Chitti Babu	Mech	Research work	10:00	12:00	
01/01	Balakrishna	EEE	Research work	11:00	1:00	
31/01/2021	N. Anandarao	ECE	Research work	11:10	12:40	
2-01-21	N. Anandarao	ECE	Research work	10:50	11:20	
1/21	Dr. K. Muralidhar	Bio Tech	Research work	10:30	12:30	KM
11	G. Chitti Babu	Mech	Research	11:00	1:00	
2/01	Balakrishna	EEE	Research work	11:20	1:00	
1/01/2021	M. S. Sivaji	ECE	Soldering	3:40pm	6:30pm	
-01-21	Dr. NVRV Kiran	ECE	Research work	10:00AM	12:40Pm	
1/01/20	N. Anandarao	ECE	Research work	10:30	12:50	
1/01	J. V. Rao	ECE	Soldering	4:10	5:00	
1/21	M. S. Sivaji	ECE	Water level Monitoring	8:40AM	9:30AM	
11	Dr. Venkateswarlu	Bio Tech	Sensor network	9:00	11:30	
11	N. Anandarao	ECE	Research work	11:00	12:30	
11	Dr. NVRV Kiran	ECE	Research work	10:30	12:00Pm	
5/1/21	M. S. Sivaji	ECE	Water Monitoring	3:30	4:45	
11	B. Sunil	BME	Research work	3:30	4:00	
11	Chitti Babu	Mech	Soldering	3:20	4:20	
6/1/21	K. muralidhar	BT	research work	3:30	4:30	
1/21	G. V. Rao	ECE	PCB Soldering work	4:10	5:00	
1/21	M. S. Sivaji	ECE	Soldering work	8:00	9:30	
1/21	Dr. NVRV Kiran	ECE	Research work	9:00Am	12:00Pm	

Date	Reg
7/1/21	D
7/1/21	G.V
8/1/21	19
8/1/21	19
8/1/21	20
8/1/21	191
8/1/21	191
8/1/21	19
8/1/21	19
8/1/21	19
8/1/21	191
8/1/21	191
8/1/21	20
8/1/21	191
9/1/21	19
11/1/21	M
11	MV
10/1/21	G
11/1/21	B
11	P.
11	B
11	N
12/1/21	P.P
11	MV
12/1/21	B.
12/1/21	G
18/1/21	N.
18/1/21	M
8/1/21	DR

Sign at	Date	Regd.no/Name	Dept	purpose	Time in	Time out	Sign at
	11	G.V.Rao	ECE	Soldering work	3:10	4:30	
	19-12-20	Balaj Reddy	ECE	Project	11:00	1:00	
	19/12/20	Dr.K.Muralidhar	Bio-Tech	Research	11:00	1:00	
	11	Shankar	BME	research purpose	12:00	2:00	
	11	P.Parani	Civil	Reserch	2:30	5:00	
	21/12/20	Balakrishna	EEE	Research work	9:30	4:30	
	11	MR.S.Sivi	ECE	11	9:45	12:30	
	11	Dr.Venkateswarlu	Bio-Tech	Research work	11:30	1:10	
	1/	Shankar	BME	Research	12:00	1:00	
	28/12/2020	G. Chitti Babu	Mech	Research work	10:00	12:00	
	11	N.Sri Icantha	ECE	research work	11:00	2:00	
	11	Dr.Venkateswarlu	Bio-Tech	Project work	12:40	2:10	
	11	Venkat	Mech	Project	12:40	2:10	
Siri	23-12-2020	Balakrishna	Civil	Project	12:40	2:10	
	11	G.Chitti Babu	Mech	research	10:00	1:00	
	23/12	Balakrishna	EEE	Research work	10:00	1:00	
	11	MR.S.Sivi	ECE	11	12:30	12:45	
	28/12/2020	P.Parani	Civil	Research work	9:00	1:00	
	11	Sunitaj	BME	Research	9:00	11:00	
	11	MR.S.Sivi	ECE	11	10:00	12:30	
	24/12/20	Dr.Venkateswarlu	Bio-Tech	Research work	3:10	5:00	
	26-12-2020	P.Satish	Civil	Research work	11:00	1:30	
	26/12/20	Dr.K.Muralidhar	Bio-Tech	Research	10:00	12:00	
	11	Chandana	ECE	Project	10:00	12:00	
		Shankar	BME	Research	11:00	12:00	
	28/12/20	G.V.Rao	ECE	Minor Project soldering work	8:10	9:10	
	11	G.Chitti Babu	Mech	Research work	10:00	12:00	
	28/12	Balakrishna	EEE	Research work	10:00	12:00	
	29-12-2020	Balaji	ECE	Project	10:00	12:00	
	11	Murali	ECE	Project	10:00	12:00	
	11	Mallika	ECE	Project	10:00	12:00	

Date	Regd.no/Name	Dept	purpose	Time in	Time out	Signature	Date	Re
9/12/20	Dr. Venkateswarlu	Bio-Tech	Research work	10:10	12:40		"	G.
"	murali	EEE	Project	10:10	12:40		19-12-20	B
"	Teja	ECE	project	10:10	12:40		19/12/20	Dr.
"	Naveen	ECE	project	10:10	12:40		"	S
12/20	G. Chitti Babu	Mech	Research work	11:00	1200		"	P.
12/2	Balacrishna	EEE	Research	11:00	12:00		21/12/2020	
"	N. Sri kantha	ECE	Research	12:10	12:00		"	
	Pavan kumar	ECE	project	11:00	1:00		"	Dr.
12/2	K. Huralidhar	Bio Tech	Research work	10:00	12:00		"	
"	Naveen	BME	Project	10:00	12:00		22/12/2020	G.
"	Dr. Venkateswarlu	Bio Tech	Research work	12:40	2:10		"	N.
"	Saikiran	ECE	project	12:40	2:30		"	Dr.
12-20	G. Chitti Babu	Mech	Research work	9:00	11:00		"	
"	Siri	ECE	Project	9:00	11:00		23-12-2020	
M	Mr. S. Srinivas	ECE	"	10:30	11:30		"	G.
12-20	P. Pavani	Civil	Research	9:30	11:30		23/12	
5/12	Balacrishna	EEE	Research	11:00	1:00		"	
"	Balaji	ECE	project	11:00	1:00		24/12/2020	P.
"	Saitej	Civil	Project	11:00	1:00		"	
12-20	P. Satish	Civil	Research	11:00	2:30		"	M
"	P. Pavani	Civil	Research	11:00	1:00		24/12/20	Dr.
"	Dr. Venkateswarlu	Bio Tech	Research	12:40	2:10		26-12-2020	P.
"	Mr. S. Srinivas	EEE	"	12:55	1:50		26/12/20	Dr. K
12-20	Shankar	BME	Soldering	8:00	9:00		"	C
"	G. Chitti Babu	Mech	Research work	10:00	1:00			S
12	Balacrishna	EEE	Research work	10:00	12:00		28/12/20	G.V
1	N. Sri kantha	ECE	Research Purpose	11:00	12:00		"	G.
12-20	Mr. S. Srinivas	ECE	"	1:30	12:30		28/12	
12/20	Dr. K. Huralidhar	Bio Tech	Research work	10:30	12:30		29-12-2020	
"	Shankar	BME	Research work	11:00	12:00		"	
"	Mr. S. Srinivas	ECE	"	12:30	1:30		"	

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING

Central Instrumentation Center (CIC)

Equipment Details

Venue : VTF -10

S No	Name of the Equipment	Invoice number	Date of purchase	Supplier	Quantity	Price
1	Masibus-UC-12 Universal Calibrator	1056/01/2020-21	3-Nov-20	Instrukart holdings	1	110000
	Differential Pressure Gauge Calibrator				1	23000
	Digital Multimeter -Fluke 17B+				5	39195
	Gauss Meter-Lutron GU-3001				1	31000
	Infrared Thermometer - (-30 Deg C to 650 Deg C)				1	17000
	Clamp Meter				1	15960
	Lux Meter				1	2340
	Sound level Meter				1	4820
	Pressure Switch				5	4750
	Digital Differential pressure transmitter				2	14400
	Battery tester				1	1950
	Panel meter				5	2280
	Switched Mode Powe Supply				4	2880
2	Lock-in Amplifier 200 MHz Range	PTCS/043/20-21	1-Sep-20	PREMIER Test Cal Systems	1	525000
	LCR Meter				1	65000
3	Temp/Humidity chamber -Temperature range Range 10°C to 60°C +/-°C & Humidity Range upto 95% RH	AT/133/2020-21	1-Sep-20	AADARSH Technologies	1	110213
4	Digital Microscope	677	1-Sep-20	VAISHALI INDUSTRY	1	22000
5	Spectrum Analyzer, 9 KHz to 3GHz	IGST 20-002	18-Mar-20	SYNARGY MEASUREMENT TECHNOLOGIES PVT LTD	1	496211
	Mixed Signal Oscilloscope(MSO) 200MHz, 4 Channel, 16 Digital Channels				1	373098
	Arbitrary Waveform Generator 20 MHz, 2-Channel				1	187537

S No	Name of the Equipment	Invoice number	Date of purchase	Supplier	Quantity	Price
6	Digital Multi Meter with Scanning (DMM-[illegible]2 Digit)	PT-036/20-21	18-Mar-20	Peridot Technologies	1	80000
	Data Acquisition and Multimeter system with 20 CH Multiplexer Card				1	157000
7	Regulated Power Supplies	DTA/012/18-19	4-Jul-18	Aplab	3	38238
8	2MHz Multi-Waveform signal generators	18300198	25-Jun-18	Aplab	3	22500
9	2MHz Multi-Waveform signal generators	17300300	14-Jul-17	Aplab	3	20814
10	Regulated Power Supplies	17400363	14-Jul-17	Aplab	3	44127
11	Digital Multi Meter	17730519	14-Jul-17	Aplab	7	12950
12	NI CAN interface bus compatible with my RIO hardware platform	51	3-Nov-16	National Instruments	1	19671
13	Monitor	65	10-Oct-16	Integrated electronics	1	4650
14	CPU	96	3-Sep-16	Integrated electronics	1	14000
15	Data Acquisition System USB9181 Single slot chassis	33	16-Jul-16	National Instruments	1	38587
	USB 9171single slot chassis & USB 9237 for Strain Measurement					250463
	USB 9171 single slot chassis & USB 9219 Universal Analog Input module					350553
	NI USB based GPIB HS Simulator					113318
	NI CAN interface bus compatible with my RIO hardware platform					19671
16	Monitors	RTPL/VJA/00251	2-Jul-16	ROOP TECHNOLOGY PVT LTD	9	41850
17	CPU	66	14-Oct-15	Integrated electronics	9	67707
18	Digital Storage Oscilloscope	ALS/14-15/0112	29-Mar-14	Akademika Lab solutions	5	126000
19	NI USB-6211,NI myDAQ , NI myRIO-1900	4	29-Mar-14	National Instruments	10	1471994
20	Non Contact Type Tachometer	EEE/S-0063	3-Sep-13	Electrical Electronics enterprises	5	7156
21	Different sensors & Actuators					621027
	GST					178152
	Total Amount					5749062

Lab Incharge

Tax Invoice

(ORIGINAL FOR RECIPIENT)

INSTRUKART HOLDINGS #18, Street 1A, Czech Colony, Sanath Nagar, Hyderabad-500018 GSTIN/UIN: 36AAFFI4624M1Z5 State Name : Telangana, Code : 36 E-Mail : sales@instrukart.com	Invoice No. **1056/01/2020-21**	Dated **8-Jan-21**
	Delivery Note	Mode/Terms of Payment
	Reference No. & Date.	Other References
Consignee (Ship to) **Vignan's Foundation** For Science, Technology and Reasearch, Vadlamudi, Guntur Dist-522213 State Name : Andhra Pradesh, Code : 37	Buyer's Order No. **VFSTR/REG/2020-21/19**	Dated **3-Nov-20**
	Dispatch Doc No.	Delivery Note Date
	Dispatched through	Destination
Buyer (Bill to) **Vignan's Foundation** For Science, Technology and Reasearch, Vadlamudi, Guntur Dist-522213 State Name : Andhra Pradesh, Code : 37	Terms of Delivery	

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	**Masibus UC12 Multi Functional Calibrator**	9026	1 Nos.	1,10,000.00	Nos.		1,10,000.00
2	**Fluke 17b+(0065)**	9030	5 Nos.	7,839.00	Nos.		39,195.00
3	**Lutron GU-3001**	9031	1 Nos.	31,000.00	Nos.		31,000.00
4	**Fluke 317(3319)**	9030	1 Nos.	15,960.00	Nos.		15,960.00
5	**Meco SMP -72**	9032	5 Nos.	456.00	Nos.		2,280.00
6	**Fluke 62 Max+ Infrared Thermometer(0491)**	9030	1 Nos.	17,000.00	Nos.		17,000.00
7	**Meco 930P (0094)**	9027	1 Nos.	2,340.00	Nos.		2,340.00
8	**Lutron SL-4030**	9031	1 Nos.	4,820.00	Nos.		4,820.00
9	**Danfoss Pressure Switch Kp-35(0042)**	9032	5 Nos.	950.00	Nos.		4,750.00
10	**Static Pressure Pump**	9026	1 Nos.	23,000.00	Nos.		23,000.00

continued ...

This is a Computer Generated Invoice

Tax Invoice(Page 2)

(ORIGINAL FOR RECIPIENT)

INSTRUKART HOLDINGS #18, Street 1A, Czech Colony, Sanath Nagar, Hyderabad-500018 GSTIN/UIN: 36AAFFI4624M1Z5 State Name : Telangana, Code : 36 E-Mail : sales@instrukart.com	Invoice No. **1056/01/2020-21**	Dated 8-Jan-21
	Delivery Note	Mode/Terms of Payment
	Reference No. & Date.	Other References
Consignee (Ship to) **Vignan's Foundation** For Science, Technology and Reasearch, Vadlamudi, Guntur Dist-522213 State Name : Andhra Pradesh, Code : 37	Buyer's Order No. **VFSTR/REG/2020-21/19**	Dated 3-Nov-20
	Dispatch Doc No.	Delivery Note Date
	Dispatched through	Destination
Buyer (Bill to) **Vignan's Foundation** For Science, Technology and Reasearch, Vadlamudi, Guntur Dist-522213 State Name : Andhra Pradesh, Code : 37	Terms of Delivery	

Sl No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
11	**Meco BM-63 (097)**	8538	1 Nos.	1,950.00	Nos.		1,950.00
12	**Meanwell RS-15-5(268417)**	8054	4 Nos.	720.00	Nos.		2,880.00
13	**Ace DIGI-MAG-T Differential Pressure Transmitter** *ACE AI-DIGI-MAG-T*	9026	2 Nos.	7,200.00	Nos.		14,400.00
							2,69,575.00
	GST@5%			5	%		13,479.00
	Total		29 Nos.				₹ 2,83,054.00

Amount Chargeable (in words)
INR Two Lakh Eighty Three Thousand Fifty Four Only

E. & O.E

Company's PAN : **AAFFI4624M**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for INSTRUKART HOLDINGS

INSTRUKART HOLDINGS HYDERABAD

Authorised Signatory

This is a Computer Generated Invoice

Tax Invoice

PREMIER

Premier Test-Cal Systems

Sales Off: 33, 2nd Floor Mookathal St Purasaiwakkam , 600 007,
Regd Off: 48/23, 1st Floor 2nd St SBI colony Jamaliya , 600 012,
Chennai,
Tamil Nadu Code:33.
Mobile no: 9444085337 / 9884216460, Phone no: 044-26651948,
Email: premiertcs@yahoo.com / office@premiertcs.com

Tax Invoice No: **PTCS/043 /20-21**	Dated: **December 1, 2020**
Delivery Note:	Terms of Payment: **Due upon receipt**
Supplier's Ref:	Other Reference:
Buyer Order (PO) No: **VFSTR/REG/2020-21/08**	PO Dated: **01/09/2020**

Customer Details:

Vignan's Foundation for Science, Technology & Research
Vadlamudi,
Guntur Dist, Andhra Pradesh - 28, Code:28,
India – 522213

S.No	Description of Goods	HSN/SAC	Qty	Unit	Rate	Amount	IGST		Total
							%	Amt	
1	Liquid Instruments Moku:Lab Lock-in Amplifier : 200 MHz Range Dynamic Reserve 120dB 10MHz Clock reference input and output along with wireless touch screen display apple ipad 32GB	9030	1	No	525,000.00	525,000.00	5	26,250.00	551,250.00
2	LCR meter : scientific SM6023 Precision of LCR Meter, 0.05%, 50Hz-100kHz, DCR Function, 6 digit resolution, 4.3" TFT LCD, RS232/USB/Handler Interface		1	No	65,000.00	65,000.00	5	3,250.00	68,250.00
Total			2			590,000.00		29,500.00	619,500.00

Total Amount in Words

Six Lakh Nineteen Thousand Five Hundred Indian Rupee (INR) Only

Total Amount before Tax (Rs)	**590,000.00**
IGST - 5 (5%)	**29,500.00**
Total Amount After Tax (Rs)	**619,500.00**

Company's GSTIN: **33AANFP0507G1ZJ**

PAN: **AANFP0507G**

Declaration:
We declare that this Tax Invoice shows the actual price of the goods described and that all particulars are true and correct.

For Premier Test – Cal Systems

Authorized Signatory

PREMIER TEST-CAL SYSTEMS CHENNAI

Income Terms:
Delivery : To your Stores
Payment : 100% Payment within 30 days after receipt of material
Sales Tax: IGST@5% Charged Extra as per GST Act
Warranty : 12 months from the date of supply

TAX INVOICE

Invoice# AT/133/2020-21

Aadarsh Technologies
A-2301, Evergreen Heights,
Parsik Nagar, Near Ozone Valley , Kalwa (W)
Thane Maharashtra 400605
India
GSTIN 27AMOPM6722B1Z1

Invoice Date :	01/10/2020
Payment Terms :	After delivery
Due Date :	01/10/2020
P.O. :	VFSTR/REG/2020-21/09

Bill To
Vignan's Foundation for science Technology and Research
Dr. Jakeer Hussain, Professor, ECE Department,
vadlamudi
Chebrolu (md),Guntur (Dt)
522213 Andhra Pradesh
India

Place Of Supply: Maharashtra (27)

#	Item & Description	HSN/SAC	Qty	Rate	Amount
1	Humidity Chamber 3 CFT(90L)	84198990	1.00 pcs	1,05,213.00	1,05,213.00
2	Freight Charges	996791	1.00 Nos.	3,000.00	3,000.00
3	Packing charges	998541	1.00 Nos.	1,999.00	1,999.00
				Sub-Total	1,10,212.00
				CGST2.5 (2.5%)	2,755.30
				SGST2.5 (2.5%)	2,755.30
				Rounding	0.40
				Total	**₹1,15,723.00**
				Balance Due	**₹1,15,723.00**

VIGNAN UNIVERSITY :: Security Department
Visitor's In & Out
Entry Serial No. 2740
Date 09.10.2020. 10:40
Signature of Security Officer

Total In Words: ***Indian Rupee One Lakh Fifteen Thousand Seven Hundred Twenty-Three Only***

Bank Details

Account Name : Aadarsh Technologies.
Bank name : ICICI BANK
Account No.: 340205000306
IFSC Code : ICIC0003402
Branch : Kalwa Parsik

Terms & Conditions

1) Goods once sold will not be taken back or exchanged.
2) Seller is not responsible for any loss or damaged of goods in transit .
3) Buyer undertakes to submit prescribed ST declaration to sender on demand. Disputes if any will be subject to seller court jurisdiction

GSTIN - 06AAWPB5324L1ZQ

TIN No. : 06781040641 Paid Bill/Cash Credit © 0171-2612211, 9813291411, 9034251

VAISHALI INDUSTRY

DEALS IN SCIENTIFIC & LABORATORY EQUIPMENTS ETC.

NANHERA ROAD, P.O. KULDEEP NAGAR, AMBALA CANTT.-133 004 (HARYANA)
website : www.vaishaliindustry.com, www.vaishalIindustry.in e-mail : vaishallindustry@gmail.com

To H.O.D ECE DEPARTMENT
VIGNAN FOUNDATION FOR SECIENCE,
VADLAMUDI - 522213, GANTUR DISTT-A.P
MOBILE -

No. 676

Date : 02-09-2020

S.No.	PARTICULARS	QTY.	RATE	AMOUNT
1	SZB-45E STEREO ZOOM MICROSCOPE	01	220000	220000
	TOTAL			220000
	I.G.S.T @ VAT	5%		11000
	S.CHARGE			1
	GRAND TOTAL			231001

Rs. in words TWEENTY THREE THOUSAND ONE HUNDRED ONLY

TERMS & CONDITIONS
1. Goods once sold will not be taken back.
2. Interest @ 18% will be charge from the date of bill. If payment is not made within seven days.
3. All disputes subject to Ambala Jurisdiction only.

E. &.O. E.

For VAISHALI INDU

Auth. Sign

SYNERGY
MEASUREMENT TECHNOLOGIES PVT. LTD.
Experience | Knowledge | Confidence

SYNERGY MEASUREMENT TECHNOLOGIES PVT. LTD.
25/C, Nicholson Road, Tarbund,
Secunderabad - 500 009, Telangana State, India.

Board No: +91 40 4444 4040 | Fax No: +91 40 2795 0190 | Email: stocks@synergytech.in | Direct No. +91 40 4444 4033

GST: 36AAKCS3950J1ZZ | CIN: U74999TG2006PTC051842

GST INVOICE

Invoice No : IGST20-002
Dated : 30/06/2020

PO No: VFSTR/REG/2019-20/127
Dated : 18/03/2020

KTSOA : 4026509

Kind Attn : Dr.Shaik Jakeer Hussain, M.E, M.B.A, PhD

Bill to:
Vignan's Foundation,
For Science, Technology and Research
(Deemed to be University)
Vadlamudi, Guntur Dist. - 522 213.
Andhra Pradesh - India

Ship to:
Vignan's Foundation,
For Science, Technology and Research
(Deemed to be University)
Vadlamudi, Guntur Dist. - 522 213.
Andhra Pradesh - India

Phone No : +91 863 2344 700
No : +91

Direct No: +91 98668 75459
Email :

Customer GST No :
Customer PAN No :

Payment Terms: 30% advance along with the PO and the balance [illegible]
Payment Mode: By DD / NEFT / RTGS / Cheque only

Remit Payment to: Account No. [illegible] Account Type: Cash Credit IFSC Code: [illegible]
South Indian Bank [illegible] Diamond Point, Sikh Village, Secunderabad - 500 009

Remarks : 1) Dispatched vide : DTDC Courier
2) Please return the acknowledged copy

Sl.No.	Model No.	HSN Code	Description of the Material	Qty	Unit Rs. Price	Total Rs. Price
1	N9320B	9030	<u>Spectrum Analyzer</u> KEYSIGHT N9320B RF Spectrum Analyzer (BSA), 9 KHz to 3 GHz (Serial No. CN0323E268)	1	4,96,211.25	4,96,211.25
2	MSO3024T	9030	<u>MIXED SIGNAL OSCILLOSCOPE</u> KEYSIGHT MSO3024T 200MHz, 4 Channel, 16 Digital Channels, Memory depth of 4MPts, update rate of1,000,000 wfrms/s with standard segmented memory, 8.5 inchcapacitive touch screen, 3 years standard warranty with 3 yearscalibration cycle. Standard Accessories: Probes: one per channel, power cord,Calibration certificate. (Serial No. MY60102984)	1	3,73,098.00	3,73,098.00
3	33512B	8543	<u>ARBITRARY FUNCTION GENERATOR</u> KEYSIGHT 33512B Waveform Generator, 20 MHz, 2-Channel with Arb (Serial No. MY59000496)	1	1,87,537.50	1,87,537.50
				Basic Total (Rounded off)		10,56,846.00
			Add: IGST@ 5% (IGST Notification No. 47/2017 dt. 14-11-2017)			52,842.00
	In Words Rs. : Eleven Lakh Nine Thousand Six Hundred Eighty Eight Only			GRAND TOTAL		11,09,688.00

Goods & Services Tax Certificate : I/we hereby certify that our Registration Certificate under the Indian GST Act is in force on the date on which the sale of the goods specified in this Invoice is made by me/us and that the transaction of sale covered by this Invoice has been effected by me/us and it shall be accounted for in the turnover of sales.

for Synergy Measurement Technologies Pvt Ltd

SYNERGY MEASUREMENT TECHNOLOGIES PVT. LTD. SEC'BAD

Authorised Signatory

1) Disputes restricted to jurisdiction of twin cities of Secunderabad and Hyderabad.
2) Overdue Payments will attract 24% Interest.
3) Goods once sold cannot be taken back or exchanged.

PERIDOT TECHNOLOGIES

PLOT NO. 41, SAMRAT COLONY,
WEST MARREDPALLY,
SECUNDERABAD - 500026.
Phone: 27807121, 40171515
Email: info@peridot-tech.com

TAX INVOICE

To
M/s. VIGNAN'S UNIVERSITY.,
VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY & RESEARCH
VADLAMUDI GUNTUR DIST.
Andhra Pradesh-522213

Inv No. PT-036/20-21
Date 12.06.2020

PO No: VFSTR/REG/2019-20/128, Dt: 18.03.2020 Customer GST No:

S.No	Part No	Description/Make : TEKTRONIX	HSN Code	Unit Price - INR	Nos	Total Price - INR
1	DAQ6510/7700	Data Acquisition and Multimeter System with 20 CH Multiplexer Card	9030	1,57,000.00	1	1,57,000.00
2	DMM6500	6-1/2 DIGIT BENCH/SYSTEM DIGITAL MULTIMETER WITH SCANNING	9030	80,000.00	1	80,000.00
		Total PO Value				2,37,000.00
		Add: IGST 5%				11,850.00
(Rs:Two Lakhs Forty Eight Thousand Eight Hundred Fifty Rupees only)						2,48,850.00

Terms of payment : 100% against delivery

for PERIDOT TECHNOLOGIES,

PERIDOT TECHNOLOGIES Hyderabad

BANK DETAILS
BEF NAME: PERIDOT TECHNOLOGIES
SYNDICATE BANK,
PICKET BRANCH, SECUNDERABAD.
A/C No: 30081250001070
IFSC Code: SYNB0003032

GSTIN : 36AACFP1578L1ZW

AUTHORIZED SIGNATORY

TAX-NVOICE

Exporter : APLAB LIMIT 37,SDF II,SEE ERI(EAST) MUMBAI - 40(TEL: 91 22 28 GSTIN.27AAA	Invoice No. DTA/012/18-19 Date DT.24.09.2018 Buyer's Order No. & Date VFSTR/REG/2018/31 DT.04/07/18 Other References : MAIL DATED 03/07/18
Consignee : VIGNAN'S FO R SCIENCE TECHNOLOGY & RESEARCH VADIAMUDI GUNTUR -522 213. ANDHRA PREDESH PAN : AABTV1315Q TAN : HYDV07903A	Ship To, VIGNAN'S FOUNDATION FOR SCIENCE TECHNOLOGY & RESEACH UNIVERSITY VADIAMUDI GUNTUR -522 213. ANDHRA PREDESH PAN : AABTV1315Q TAN : HYDV07903A Terms of Delivery and Payment FOB MUMBAI
Pre-Carriage by BY ROAD Place of Receipt by Pre-carrier MUMBAI-INDIA	PAYMENT:25% ADVANCE BALANCE AGAINST DELIVERY
Vessel/Flight No Port of Loading MUMBAI	
Port of Discharge: BY ROAD Final Destination GUNTUR-ANDHRA PRADESH	

Marks & Nos/ Container No	No.of Packages	Description of Goods	P.O.NO.	Qty	Rate INR	Amount INR
		ELECTRONIC INSTRUMENTS **H.S.CODE 85044029**				
VIGNAN'S GUNTUR 1/5-5/5	(5) FIVE PACKAGE	APLAB TRIPLE OUTPUT REGULATED DC POWER SUPPLY OUTPUT 0-32V/0-3A MODEL TT3203D SR NO.18320035 TO 18320039 HSN CODE 85044029	VFSTR/REG 2018/31	5	12746.77	63733.85
						63733.85
		BASIC DUTY @ 15%				9560.07
		SWS DUTY 10%				956.00
						74249.92
		IGST : 18%				13364.98
				5		87614.90
		AMOUNT IN WORDS : EIGHTY SEVEN THOUAND SIX HUNDRED FIFTY ONLY				**87615.00**

नारायणन ब
Narayanan B
प्राधिकृत अधिकारी (मूल्यांकन)
Authorised Officer (Assessment)
सीप्ज़ वि. आ क्षेत्र, मुंबई -96
SEEPZ-SEZ., Mumbai-96

I.E.CODE NO : 0388031913
G.R. NO : EXEMPTED
A.D.CODE : 0003473 -6000009
Declaration:
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

APLAB LTD. SEEPZ-SEZ MUMBAI

For Aplab Limited

Authorised Signatory

CIN: U99999

DUPLICATE FOR TRANSP

"An ISO 9001-2008, ISO 14001-2004 & OHSAS 18001-2007 Certified

APL

Aplab H
Tel. No.

TAX INVOICE
GSTIN - 27AAACA1030H1ZC
STATE - MAHARASHTRA CODE-27

No. 18300198

DATE 04-07-2018

ustrial Estate, Thane - 400 604.
21861 Fax : 25823137 Email - comml@aplab.com Web : www.aplab.com

O/A 300001726

Sold to

VIGNAN N FOR SCIENCE,
TECHN RCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:NOT APPLICABLE
STATE CODE : NO

Shipped to

VIGNAN'S FOUNDATION FOR SCIENCE
TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:NOT APPLICABLE
STATE CODE : NO

Date of Supply 04-07-1

Reverse charges Yes / No

Customer Order Ref.
VFSTR/REG/2018/31
25-06-2018

Customer's Bank/Paying Authority
VIGNAN'S FOUNDATION FOR SCIENCE,
TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

Challan No. & Date SHP032467 04-07-2018

Payment Terms
025% Adv.& Bal against Delivery

Carrier Receipt No. &

REF.	DESCRIPTION	MODEL NO.	QTY.	UNIT PRICE	AMOUNT (Rs.)
	APLAB 2MHZ MULTI-WAVEFORM SIGNAL GENE RATOR	MSG2M	16.00	7500.00	120000.
	SRNO :H003MSG0618086 to 101				
	HSN NO:85.43.20 90				
			Discount 10.00%	750.00	108000.
			IGST 18.00%		19440.
				Total for Item	127440.
				Total for Invoice	127440.
				100% of Invoice Amount	127440.
				100.00% Claim Amount	127440.

CALCULATIONS ARE ROUNDED OFF TO NEAREST RUPEE
Rupees One Lakh Twenty Seven Thousand Four Hundred and Forty only

Rupees One Lakh Twenty Seven Thousand Four Hundred and Forty only
being 100.00% payment of this bill

PAN No. : AAACA1030H
Packed in 16 Wooden Case/Crate/Carton/Box 64 kg.
Total Weight in Kg
ABOVE CONSIGNMENT INSURED UNDER OPEN GENERAL POLICY NO:131400/21/2018/317
DATED 01-01-2018 VALID UPTO 31-12-2018 WITH THE ORIENTAL INSURANCE CO.LTD. THANE

VFSTR University
Department of Electronics & Communication Engineering
Entered in the Page No. 10.... of ...RF applications
Lab:.....Stock Register No. VFSTR/ECE/Lab/06 A1

H.O.D. Lab Incharge

E & O.E.

* Please quote Invoice No. in future correspondence

Certified that the goods on which GST, has been charged have not been exempted under the GST Rules or the rules made thereunder and the amount charged by GST Act these goods are not more than what is payable under the provisions of relevant Act or the rules made thereunder.

We hereby certify that our registration certificate under GST Act, 2017 is in force on the date on which the sale of the goods specified in this tax invoice is made by us and that the transaction of sale covered by this tax invoice has been effected by us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.

For APLAB LIMITED

(Authorised Signatory)

Aplab

APLAB LIMITED

Aplab House, A/5-6, Wagle Industrial Estate, Thane - 400 604.
Tel. No. : 91-22-67395555, 25821861 Fax : 25823137 Email : comml@aplab.com Web : www.aplab.com

TAX INVOICE
GSTIN - 27AAACA1030H1ZC
STATE - MAHARASHTRA CODE-27

No. 17300300
DATE 18-09-2017
O/A 300001084
Date of Supply 18/9/17
Reverse charges Yes / No
Challan No. & Date SHP024144 18-09-2017
Carrier Receipt No. & Date

Sold to SCV00011
VIGNAN'S FOUNDATION FOR SCIENCE,
TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:
STATE CODE :

Shipped to
VIGNAN'S FOUNDATION FOR SCIENCE
TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:
STATE CODE :

Customer Ref.
VFSTR/REG/2017/54
14-07-2017

Payment Terms
025% Av.& Bal.against Delivery

Consignee
VIGNAN'S FOUNDATION FOR SCIENCE,
TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

REF.	DESCRIPTION	MODEL NO.	QTY.	UNIT PRICE	AMOUNT (Rs.)
	APLAB 2MHZ MULTI-WAVEFORM SIGNAL GENE DATOR	MSGZM	12.00	6938.00	83256.00
	SR : H003MSG0617153 to 160,H003MSG0717161 to 1 HSN NO:85.43.20 90				
				IGST 18.00%	14986.08
				Total for Item	98242.08
				Total for Invoice	98242.00
				100% of Invoice Amount	98242.00
				100.00% Claim Amount	98242.00

CALCULATIONS ARE ROUNDED OFF TO NEAREST RUPEE
Rupees Ninety Eight Thousand Two Hundred and Forty Two only

Rupees Ninety Eight Thousand Two Hundred and Forty Two only
being 100.00% payment of this bill

PAN No. : AAACA1030H
Packed in 12 Wooden Case/Crate/Carton/Box 60 Kg
Total Weight in Kg
COVER CONSIGNMENT INSURED UNDER OPEN GENERAL POLICY NO:131400/21/2017/371
DATED 1-01-2017 VALID UPTO 31-12-2017 WITH THE ORIENTAL INSURANCE CO.LTD. THANE

hat the goods on which GST, has been charged been exempted under the GST Rules or the e thereunder and the amount charged by these goods are not more than what is nder the provisions of relevant Act or the e thereunder.

We hereby certify that our registration certificate under GST Act, 2017 is in force on the date on which the sale of the goods specified in this tax invoice is made by us and that the transaction of sale covered by this tax invoice has been effected by us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.

For APLAB LIMITED

(Authorised Signatory)

TAX INVOICE

APLAB LIMITED

GSTIN - 27AAACA1030H1ZC
STATE - MAHARASHTRA CODE-27

XGITR (A)

Aplab House, A/5-6, Wagle Industrial Estate, Thane - 400 604.
Tel. No. : 91-22-67395555, 25821861 Fax : 25823137 Email - comml@aplab.com Web : www.aplab.com

No. 17400863
DATE 16-09-2017
O/A 400002059
Date of Supply 16-9-17
Reverse charges: Yes / No
Challan No. & Date SHP024129 16-09-2017
Carrier Receipt No. & Date

Sold to SCV00011
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:
STATE CODE:

Shipped to
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No.:
STATE CODE:

Customer Order No.
VESRTU/REG/2017/54
14-07-2017

Consignee / Shipping Authority
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

Payment Terms
025% Av.& Bal.against Delivery

REF.	DESCRIPTION	MODEL NO.	QTY.	UNIT PRICE	AMOUNT (Rs.)
1	APLAB REGULATED BENCH,RACK ADAPTABLE, DUAL OUTPUT P.S. O/P 0-32V/0-2A SRNO : HO11D32020617029 to 37,HO11D32020617038 to 40 HSN NO:85.04.40 29	LD3202	12.00	14709.50	176514.00
				IGST 28.00%	49423.92
				Total for Item	225937.92
				Total For Invoice	225938.00
				100% of Invoice Amount	225938.00
				100.00% Claim Amount	225938.00

CALCULATIONS ARE ROUNDED OFF TO NEAREST RUPEE
Rupees Two Lakh Twenty Five Thousand Nine Hundred and Thirty Eight only

Rupees Two Lakh Twenty Five Thousand Nine Hundred and Thirty Eight only being 100.00% payment of this bill

PAN No. : AAACA1030H
Packed in 12 Wooden Case/Crate/Carton/Box 2 OK 9
Total Weight in Kg 168
ABOVE CONSIGNMENT INSURED UNDER OPEN GENERAL POLICY NO:131400/21/2017/371 DATED 01-01-2017 VALID UPTO 31-12-2017 WITH THE ORIENTAL INSURANCE CO.LTD. THANE

E & O.E.

Please quote Invoice No. in future correspondence

Certified that the goods on which GST, has been charged have not been exempted under the GST Rules or the rules made thereunder and the amount charged by GST Act, these goods are not more than what is payable under the provisions of relevant Act or the rules made thereunder.

We hereby certify that our registration certificate under GST Act, 2017 is in force on the date on which the sale of the goods specified in this tax invoice is made by us and that the transaction of sale covered by this tax invoice has been effected by us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.

For APLAB LIMITED

(Authorised Signatory)

TAX INVOICE

GSTIN - 27AAACA1030H1ZC
STATE - MAHARASHTRA CODE-27

MS. Annapurna
Md 9966426477

APLAB LIMITED (UNIT-III)
Plot No. 12, shed No.2, TTC Industrial Area, Thane Belapure Road, Digha, Navi Mumbai - 400 708.
Tel. No. : 91-22-64563500,64563527, 64563528
Email : outsource.digha@aplab.com commi@aplab.com Web: www.aplab.com

No. 17730519
DATE 18-09-2017
O/A 4900000368
Date of Supply
Reverse charges Yes / No
Challan No. & Date 5HP024143 18-09-2017
Carrier Receipt No. & Date

Sold to SCV00011
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No. :
STATE CODE :

Shipped to
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

GST No. :
STATE CODE :

Customer's Order Ref.
VFSTU/REG/2017/54
14-07-2017

Customer's Buying/Paying Authority
VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY & RESEARCH UNIVERSITY
VADLAMUDI
GUNTUR-522213
ANDHRA PRADESH

Payment Terms
025% Adv. & Bal. against Delivery

REF	DESCRIPTION	MODEL NO.	QTY.	UNIT PRICE	AMOUNT (Rs.)
1	DIGITAL MULTIMETER 3 3/4 DIGIT : 2356233 to 256 NO:90.30.31 00	VC97	24.00	1850.00	44400.00
		IGST 18.00%			7992.00
		Total for Item			52392.00
		Total for Invoice			52392.00
		100% of Invoice Amount			52392.00
		100.00% Claim Amount			52392.00

CALCULATIONS ARE ROUNDED OFF TO NEAREST RUPEE.
Rupees Fifty-Two Thousand Three Hundred and Ninety Two only

Rupees Fifty Two Thousand Three Hundred and Ninety Two only
being 100.00% payment of this bill.

PAN No. : AAACA1030H
Packed in 01 Wooden Case/Crate/Carton/Box
Total Weight 15 in Kg
ABOVE CONSIGNMENT INSURED UNDER OPEN GENERAL POLICY NO:131400/21/2017/371
DATED 01-01-2017 VALID UPTO 31-12-2017 WITH THE ORIENTAL INSURANCE CO. LTD. THANE

ied that the goods on which GST, has been charged not been exempted under the GST Rules or the made thereunder and the amount charged by Act these goods are not more than what is ble under the provisions of relevant Act or the made thereunder.

We hereby certify that our registration certificate under GST Act, 2017 is in force on the date on which the sale of the goods specified in this tax invoice is made by us and that the transaction of sale covered by this tax invoice has been effected by us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any, payable on the sale has been paid or shall be paid.

For APLAB LIMITED

(Authorised Signatory)

Innovative Invaders Technologies
B-5, TST Complex, 2nd Floor, 742, Avinashi Road
Coimbatore - 641 018. Tamil Nadu, INDIA
GSM : +91 99433 09009 / +91 76670 09099

NAT INST ... AUTH ... RESELLER

Tax Invoice

To	Invoice No : 51
The Registrar Vignan's Foundation for Science, Technology And Research, Vadlamudi Guntur, Andhra Pradesh 522 213	Date : 10.11.2016 P.O. No :VFSTRU/Reg/A6/30/2016/1104 P.O. Date :03.11.2016

Sl.No.	Item Description	Qty Nos.	Rate in Rs.	Amount in Rs.
1	NI CAN interface bus compatible with myRIO hardware platform	1	19,671.00	19,671.00
	Add : VAT @ 5%		"	983.55
	TOTAL			20,655.00
	Value in Words : Rupees twenty thousand six hundred and fifty five only			

NOTE : All disputes subject to Coimbatore Jurisdiction

For **Innovative Invaders Technologies**

Authorised Signatory

TIN NO. : 33431803958
CST No. : 899368

E-mail : iitcbe@gmail.com | sales@innovativeinvaders.com | www.innovativeinvaders.com
Regd. Off : 8/147-F, Velankanni Nagar, Podanur, Coimbatore - 641 023.

ECE

TAX INVOICE
CASH / CREDIT

Cell :

☎ 0863 - 2231020

Integrated Electronics

Distributors : MICROTEK INVERTERS & EXIDE BATTERIES

12-14-13, Opp: Sivalayam Temple Lane, Kothapet, GUNTUR - 522 001.
e-mail : integratedelectronics.guntur@gmail.com

Invoice No. 65

Date 10.10.2016.

M/s. Vignan University

TIN No. ....
D.C. No. .... Date ....
Veh. No. ....

S.No	ITEM	Pcs.	Rate	Vat%	Amount
1	Benq monitors 20 inch	64	4650	5%	297600.00

VIGNAN'S UNIVERSITY
IT SERVICES
VADLAMUDI
Entered in the page No. 64 of ....
Lab IT Services Stock Register No. 1 ....
Director [redacted] VAT TAX Lab Incharge
PAN No. 3227 4489193

Rupees Two lak ninety seven thousand six hundred only.

MICROTEK EXIDE

TOTAL	297600.00
VAT	
OTHERS	
GRAND TOTAL	297600.00

for Integrated Electronics

N No. 37483326379

TAX INVOICE
CASH / CREDIT

98484 29
Cell : 93469 9
☎ 0863 - 221

Integrated Electronics

Distributors : MICROTEK INVERTERS & EXIDE BATTERIES

12-14-13, Opp. Sivalayam Temple Lane, Kothapet, GUNTUR - 522 001.
e-mail : integratedelectronics.guntur@gmail.com

Invoice No. Date 03-09-2016.

M/s. VIGNAN UNIVERSITY

TIN No. .....
D.C. No. ..... Date .....
Veh. No. .....

S.No	ITEM	Pcs.	Rate	Vat%	Amount
1	core I3, 4GB, 500GB keyboard, mouse cpu	64	14000	5%	8,96,000 00
	INCLUDING VAT TAX State Bank of India, Kothapet, Guntur A/C No. 32274489193.				
				TOTAL	8,96,000 00
	Rupees Eight lakh sixty thousand only			VAT	
				OTHERS	
				GRAND TOTAL	8,96,000 00

MICROTEK TECHNOLOGY WE LIVE

EXIDE INDUSTRIES LIMITED

for Integrated Electronics

Innovative Invaders Technologies
B-5, 2nd Floor, TST Complex, 742, Avinashi Road,
Coimbatore - 18. Tamil Nadu, INDIA.
GSM : +91 99433 09009 / +91 76670 09099

NATIONAL INSTRUMENTS™
AUTHORIZED ACADEMIC RESELLER

Tax Invoice

To	Invoice No : 33 Date : 06.09.2016 P.O. No : - P.O. Date : 16.07.2016
The Registrar Vignan University Vadlamudi Guntur, Andhra Pradesh 522 213	

Sl.No.	Item Description	Qty Nos.	Rate in Rs.	Amount in Rs.
1	Data Acquisition System for Temperature and transport over Ethernet protocol USB 9181 Single slot chassis – 01qty	1	38,587.00	38,587.00
2	**Experimental Setup for Temperature Measurement Application using Thermocouple and RTD** 2a. NI Hardware: Universal Analog Input module for Temperature measurement using Thermocouple, RTD, Thermister USB 9171 single slot chassis - 01qty USB 9219 Universal Analog Input module – 01qty 2b. Experimental setup for Temperature application with required sensors	1	3,50,553.00	3,50,553.00
3	**Experimental Setup for Strain Measurement Application** 3a. NI Hardware: Universal Analog Input module for Strain measurement using Strain gauge (quarter, half and full bridge) - USB 9171 single slot chassis USB 9237 Strain Measurement Input module 3b. Experimental setup for Strain gauge application with required sensors	1	2,50,463.00	2,50,463.00

Innovative Invaders Technologies
B-5, 2nd Floor, TST Complex, 742, Avinashi Road,
Coimbatore - 18. Tamil Nadu, INDIA.
GSM : +91 99433 09009 / +91 76670 09099

NATIONAL INSTRUMENTS™
AUTHORIZED ACADEMIC RESELLER

4	**Experimental Setup for Communication Protocol Application** 4a. NI USB based GPIB HS Simulator and Instrument Simulator hardware bundle	1	1,13,318.00	1,13,318.00
	4b. NI CAN interface bus compatible with myRIO hardware platform	1	19,671.00	19,671.00
	Add : Freight			5,000.00
	Sub Total			7,77,592.00
	Add : VAT @ 5%			38,879.60
	Sub Total			8,16,472.00
	Less : Discount			16,472.00
	TOTAL			8,00,000.00
	Value in Words : Rupees Eight Lakhs only			

NOTE : All disputes subject to Coimbatore Jurisdiction

For Innovative Invaders Technologies

INNOVATIVE INVADERS TECHNOLOGIES CBE-45

Authorised Signatory

TIN NO. : 33431803958
CST No. : 899368

ROOP TECHNOLOGY PVT LTD

D.NO 33-5-50 PAPAIAH STREET
SURAKIPURAM VIJAYAWADA

Tel No:0866-6623333
Email:yamini@rooponline.com

Retail Invoice
ORIGINAL - BUYER'S COPY

MS VIGNAN UNIVERSITY
VADLAMUDI GUNTUR(DIST)

suresh@rmail.com

Invoice No: RTPL/VJA/00251
Invoice Date: 02/07/2016 Time:15:57:07
Payment Terms: 100% AGAINST DELIVERY
VAT No:
CST No:
BILLED BY: DM
Pur Order No: DATED 22/06/2016
Agent Name : RAMESH
Despatch Thru:
Bill Due Date : 02/07/2016

S.No	Product Description	Quantity	Unit	Rate	Unit Price	Amount
1	T-VIEWSONIC 19 LCD MONITOR VA-1901A	220.000	NOS	4650.00	4428.66	974305.20
	Add : VAT OUT PUT 5%			5.00%		974305.20 48715.26
	Less : ROUND OFF					20.46

VIGNAN'S UNIVERSITY
IT SERVICES
VADLAMUDI
Entered in the page No. 60 01
Lab ..... Stock Register No. .....
Director Lab I

Rupees Ten Lac twenty three thousand only

Total Rs. 1023000.00

E.&O.E

For ROOP TECHNOLOGY PVT LTD

Authorised Signatory

Terms and Conditions

1.Subject to Mumbai Jurisdiction
2.Payment by A/c payee Cheque Only.
3.All Articles are carefully checked before despatch and no claims will be entertained for breakage,shortage or theft in transit.
4.Our risk responsibility ceases after goods leave our premises
5.1% per week will be charged extra against loss of profit and interest if this bill is not paid on the due date.
6.Warranty will be void if cheque will be returned unpaid.
7.Warranty/guarantee is responsibility of respective vendors/Brand Owners.

HEAD OFFICE
43/220 Anand Nagar Co-op Housing Society, Off Nehru Road,Santacruz (East),Mumbai 400055,India.
Phones:(022)26681923,26613310 FAX: 091-22-3856772 Website :www.rooponline.com

Integrated Electronics

No.13-6-438 / A / 40,Sathyanarayana Nagar,
Gudhimalkapur, Mehadipatnam
Hydrabad - 500 006. Telangana State.
Cell : 91779 99914

TIN No. : 36889911686

VAT INVOICE

CASH / CREDIT

No. 066 Date : 14/10/15

To VIGNAN UNIVERSITY

Your P.O. No. Date :

Party TIN / CST No. Date :

D.C. / L.R. No. Date :

S.No.	DESCRIPTION	Qty.	Rate	Amount Rs.	P.
(1)	C2D00, 4GB Ram, 300gb HDD CPU	250 Nos	7523-80	18,80,952	38
	vat	5%		94047	61
				+	01
				19,75,000	00
			TOTAL	19,75,000	00

VIGNAN'S UNIVERSITY
IT SERVICES
VADLAMUDI.
Entered in the page No...52...of.....
Lab.....Stock Register No...1....

Director

Lab Incharge

Goods received a good condition

Receiver's Signature.....

Rupees Nineteen lakhs Seventy five Thousand Rupees only —

Terms & Condition of Sales

1. Goods once sold will not be taken back or exchanged.
2. Interest will be collected @ 24% p.a. If this bill is not paid within 15 days.
3. Any complaint should be made with us within 24 hours of receipt of the goods.
4. Goods are despatched at buyer's risk.
5. Subject to Hyderabad Jurisdiction only
6. Warranty for all products covered by Manufacturers only otherwise specified by us on invoice.

For INTEGRATED ELECTRONICS

Authorised Signatory

AKADEMIKA

demika Lab Solutions
07, MIDC T I C Electronic Zone,
pe, Navi Mumbai - 400709
02227670581-83 Fax: 022-27670583
l: lab@akademika.in Web: www.akademika.in

TAX INVOICE

To.

Vignan's University,
Vadlamudi,
Guntur Dist- 522 213
Andhra Pradesh

Contact Person :-

Tel: 08632344700

Fax:

Invoice No.:	ALS/14-15/0112
Invoice Date:	08/08/2014
Challan No	ALS/14-15-TRD/0034
Challan Date	08/08/2014
P.O. No	NIL
P.O. Date	29/03/2014
Mode of Dispatch	
Tin No.	

Sr. No.	Model No.	Description	Qty	Rate	Net Amt.	Tax @	Tax Amt.	Amount
1	DSO 100C1G	100MHz 1GS/s Colour Digital Storage Oscilloscope With FFT	45	24,000.00	1,080,000.00	5.00	54,000.00	1,134,000.00

5% Tax Amt. 54,000.00

12.5% Tax Amt. 0.00

In Words :

RUPEES ELEVEN LAC THIRTY FOUR THOUSAND ONLY

Freight	0.00
Insurance	
Grand Total	1,134,000.00

We hereby certify that my/our registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force on the date on which the sale of the goods specified in this tax invoice made by me/us and that the transaction of sale covered by this tax invoice has been effected by me/us and it shall be accounted for in the turnover of sales while filing of return and the due tax, if any payable on the sale has been paid or shall be paid.

Interest @ ... % will be charged on overdue bill.

For Akademika Lab Solutions

Authorised Signatory

VAT No.: 27291001847V
CST No.: 27291001847C

SUBJECT TO THANE JURISDICTION

Innovative Invaders Technologies
B-5, TST Complex, 2nd Floor, 742, Avinashi Road,
Coimbatore - 641 018. Tamil Nadu, INDIA.
GSM : +91 99433 09009 / +91 76670 09099

NATIONAL INSTRUMENTS
AUTHORIZED ACADEMIC RESELLER

TAX INVOICE

To **The Registrar** **VIGNAN'S University** **Vadlamudi, Guntur Dist - 522 213** **Andhra Pradesh** **Ph no: +91 863 2344 700**	**Invoice No** :004 **Date** : 23. 04.2014 **Indent No** : **P.O. No** :Purchase Order letter **P.O. Date** :29.03.2014

Sl.No.	Item Description	Qty Nos.	Rate in Rs.	Amount in Rs.
1	* 1 Year(s) Academic Site License Teaching Standard Service Proram * NI USB-6211 Bus-Powerd M Series Multifunction DAQ Device, NI-Aqmx driver sw and Signal Express LE for Windows -10 qty * NI myDAQ - Student Kit - with LabVIEW& Multisim Student edition - 10 qty * NI myRIO-1900 for Student Purchase only includes WIFI and MSP Connector - 10 qty * LabVIWE Academy Course Prepration material - 01 qty * LabVIWE Academy Student workbook for student use with Offical LabVIEW Academy Program -01 qty * Shipping and handling Fees, account numbers and preferred shipping methods may be selected	01	13,95,255.00	13,95,255.00
	VAT @ 5.5%		76,739.00	76,739.00
	TOTAL			**14,71,994.00**
	Value in Words : Fourteen lakh and seventy one thousand nine ninety four only			

NOTE : All disputes subject to Coimbatore Jurisdiction

For **Innovative Invaders Technologies**

INNOVATIVE INVADERS TECHNOLOGIES 088-45

Authorised Signatory

TIN NO. : 33431803958
CST No. : 899368

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2020-21/19

Date: 03.11.2020

To
M/s Instrukart
Plot No. 18, Czech Colony
Sanath Nagar, Hyderabad
Telangana – 500 018.
Ph: +91(40)40262020

Sir,

Sub: VFSTR -Purchase of Minor equipment for Central Instrumentation Centre - Reg.
Ref: Your Quotation Ref. No. IH/Q-0571/M/20-21 dt. 07.10.2020.

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of minor equipment as per the details given below: -

Sl.No.	Item Description	Qty.	Unit Price (Rs.)	Amount (Rs.)
1.	Masibus UC 12 Multi function calibrator	01	1,10,000	1,10,000
2.	17B+ Fluke digital multimeter	05	7,839	39,195
3.	GU 3001 Gauss meter	01	31,000	31,000
4.	317 Clamp meter	01	15,960	15,960
5.	Panel meter	05	456	2,280
6.	62 Max fluke infrared thermometer	01	17,000	17,000
7.	Lux meter	01	2,340	2,340
8.	Sound meter SL 4030	01	4,820	4,820
9.	KP 35 Pressure switch	05	950	4,750
10.	Differential pressure calibrator	01	23,000	23,000
11.	Battery tester	01	1,950	1,950
12.	SMPS	04	720	2,880
13.	Digital differential pressure transmitter	02	7,200	14,400
			Total (Rs.)	2,69,575
			GST @5%	13,479
			Grand Total (Rs.)	2,83,054

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 100% payment against delivery and installation
2. GST : 5% as added above
3. Delivery Period : 1-2 weeks from the date of confirmed PO
4. Transportation : Free of cost
5. Warranty : One year

REGISTRAR
VIGNAN'S FOUNDATION
R SCIENCE, TECHNOLOGY AND RESE
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR DISTRICT, A.P., INDIA

Copy to:
The Finance Officer
The HoD, ECE

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2020-21/08 Date: 01.09.2020

To
M/s Premier Test-Cal Systems
Regd Off: 48/23, 1st Floor SBI Colony
Jamaliya – 600 012
Chennai, TamilNadu, India
Mobile: 9444085387

Sir,

Sub: VFSTR -Purchase Order for supply of equipment Instrumentation lab - Reg.
Ref: Your Quotation Ref. No. PTCS/20-21/93 dt. 27 Aug, 2020

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of equipment for Instrumentation Lab as per the details given below: -

Sl.No.,	Model	Item Description	Qty.	Amount (Rs.)
1.	Moku	Liquid Instruments Moku: Lab Lock-in Amplifier 200 MHz Range Dynamic Reserve 120dB 10MHz clock reference input and output Along with Free Wireless Touch Screen Display Apple Ipad 32GB	01	5,25,000
2.	Scientific SM 6023	LCR Meter Precision of LCR Meter, 0.05%, 50Hz – 100kHz, DCR Function, 5 digit resolution, 4.3" TFT LCD, RS232/USB/Handler interface	01	65,000
			Total (Rs.)	5,90,000
			GST @ 5%	29,500
			Grand Total (Rs.)	6,19,500

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 100% payment within 30 days after receipt of mateiral.
2. GST : 5% as added above against submission of DSIR certificate
3. Delivery Period : 4-6 weeks from the date of PO subject to Force Mejeure clause for Sl. No. 01
   6-8 weeks from the date of PO subject to Force Mejeure clause for Sl. No. 02
4. Transportation : Free of cost
5. Warranty : 12 months from the date of Invoice

REGISTRAR
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEA.
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR (DISTRICT), A.P.

Copy to:
The Finance Officer, The HoD, ECE

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2020-21/09

Date: 01.09.2020

To
M/s Aadarsh Technologies
A 2301,Evergreen Heights
Near Ozen Valley, Parsik Nagar
Kalwa (E), Thane – 400 605

Sir,

Sub: VFSTR -Purchase Order for supply of equipment Instrumentation lab - Reg.

Ref: Your Quotation Ref. No. AT/LE/66/2020-21 dt. 26.08.2020.

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of equipment for Instrumentation Lab as per the details given below: -

Sl.No.	Item Description	Qty.	Amount (Rs.)
1.	Humidity Chamber Temp. Range 10° C to 60° C ±1°C Humidity Range upto 95% RH Capacity : 3 CFT (90L) Inner Chamber DxWxH (cms): 45x45x50 No. of Shelves:2 Voltage Stabilizer	01	1,34,200
	Less: Discount @ 20%		26,840
	Amount after discount		1,07,360
	Special Discount @2%		2,147
	Price after Spl. Discount		1,05,213
	Freight, Packing & Forwarding (3,000+ 2,000)		5,000
	Total		1,10,213
	GST @5%		5,510
	Grand Total (Rs.)		1,15,723

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 100% payment against delivery and installation
2. GST : 5% as added above against submission of DSIR certificate
3. Delivery Period : 02 weeks
4. Warranty : 12 months from the date of Invoice

REGISTRAR

VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR DIST., A.P.

Copy to:
The Finance Officer
The HoD, ECE

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2020-21/10

Date: 01.09.2020

To
M/s Vaishali Industry
Nanhera Road, P.O. Kuldeep Nagar
Ambala Cantt. – 133 004
Mob: 9813291411

Sir,

Sub: VFSTR - Purchase Order for supply of equipment Instrumentation lab - Reg.
Ref: Your Quotation Ref. No. P.I.-652, dt. 15.08.2020.

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of equipment for Instrumentation Lab as per the details given below: -

Sl.No.	Item Description	Qty.	Amount (Rs.)
1.	SZB-45E Stereo Zoom Microscope	01	22,000
		GST @5%	1,100
		Grand Total	23,100

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 100% payment against delivery and installation
2. GST : 5% as added above against submission of DSIR certificate
3. Delivery Period : Within one week
4. Warranty : 01 year from the date of invoice
5. Transportation : Free of cost

REGISTRAR
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR (DISTRICT), A.P. INDIA

Copy to:
The Finance Officer
The HoD, ECE

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2019-20/127

Date: 18.03.2020

To
M/s Synergy Measurement Technologies Pvt Ltd
No. 25/C, Nicholson Road, Tarbund
Secunderabad – 500 009.

Sir,

Sub: VFSTR -Purchase Order for supply of equipment Instrumentation lab - Reg.
Ref: Your Quotation Ref. No. SMTPL/VU/079A dt. 16.03.2020.

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of equipment for Instrumentation Lab as per the details given below: -

Sl.No.	Item Description	Qty.	Amount (Rs.)
1.	**Spectrum Analyzer** Keysight N9320B RF Spectrum Analyzer (BSA), 9 KHz to 3GHz	01	4,96,211.25
2.	**Mixed Signal Oscilloscope (MSO)** Keysight MSO3024T 200MHz, 4 Channel, 16 Digital Channels, Memory depth. of 4MPts. Update rate of 1,000,000 wfrms/s with standard segmented memory, 8.5 inch capacitive touch screen, 3 years standard warranty with 3 years calibration cycle. **Standard Accessories:** Probes: one per channel, power cord, Calibraion certificate.	01	3,73,098.00
3.	Arbitrary Function Generator Keysight 33512B Waveform Generator, 20 MHz, 2-Channel with Arb	01	1,87,537.50
		Total (Rs.)	10,56,846
		GST @5%	52,842
		Total	11,09,688

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 30% advance along with PO and the balance against delivery.
2. GST : 5% as added above against submission of DSIR certificate
3. Delivery Period : 8-10 weeks from the date of confirmed PO
4. Transportation : Free of cost
5. Warranty : 03 years

Copy to:
The Finance Officer
The HoD, ECE

REGISTRAR
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Deemed to be University)
VADLAMUDI-522 213.
GUNTUR (DISTRICT), A.P. INDIA

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2019-20/128

To

M/s Peridot Technologies
Plot No. 41, Samrat Colony
West Marredpally
Secunderabad – 500 026.

Date: 18.03.2020

Sir,

Sub: VFSTR -Purchase Order for supply of equipment Instrumentation lab - Reg.
Ref: Your Quotation Ref. No. PT/TEK/VU/8738/1 dt. 17.03.2020.

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of equipment for Instrumentation Lab as per the details given below: -

Sl.No.	Part No.	Item Description	Qty.	Amount (Rs.)
1.	DAQ6510/7700	Data Acquisition and Multimeter system with 20 CH Multiplexer Card	01	1,57,000
2.	DMM6500	6-1/2 Digit Bench/System Digital Multimeter with Scanning	01	80,000
		Total (Rs.)		2,37,000
		GST @5%		11,850
		Total (Rs.)		2,48,850

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment : 30% advance along with PO and the balance against delivery.
2. GST : 5% as added above against submission of DSIR certificate
3. Delivery Period : 2-4 weeks from the date of confirmed PO
4. Transportation : Free of cost
5. Warranty : 05 years

Copy to:
The Finance Officer
The HoD, ECE.

REGISTRAR
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR (DISTRICT), A.P. INDIA

SEI center

VIGNAN'S
Foundation for Science, Technology & Research
UNIVERSITY
Building young India

PURCHASE ORDER

Date: 29th March, 2014

To
M/s Innovative Invaders Technologies
B-5, TST Coplex, 942,
Avinashi Road,
Coimbatore-641018,
Tamilnadu, India.

Dear Sirs,

Sub: Vignan's Foundation for Science, Technology & Research University – Purchase order for supply of equipment to establish NI LabView academy-Specifications - terms and conditions –Reg.

Ref: Your quotation No: Ref: IIT/NI 35-FY/07/14, dated 14th March, 2014.

***

With reference to your quotation and final discussion. We here by place a purchase order for supply of equipment to establish NI LabView academy as given below,

Sl. No	Description	Qty.	Unit Price	Total Price
1	• 1 Year(s) Academic Site License Teaching Standard service program • NI USB-6211 Bus-Powered M Series Multifunction DAQ Device, NI- AQmx driver software and Signal Express LE for Windows – 10qty • NI myDAQ - Student Kit - with LabVIEW & Multisim Student Edition – 10qty • NI myRIO-1900 for Student Purchase Only: Includes WIFI and MSP Connector. – 10qty • LabVIEW Academy Course Preparation Materials – 01qty • LabVIEW Academy Student Workbook for Student Use with Official LabView Academy Program- 01qty • Shipping and Handling Fees, account numbers and preferred shipping methods may be selected.	01	14,71,994/-	14,71,994/-
	Tax(@5.5%)			Included
	Grand Total (Rs.)			**14,71,994/-**
	(Rupees Fourteen Lakhs seventy one thousand nine hundred and ninety four only)			

The specifications of all the above equipment are as per the details provided by you through quotations and booklet.

Terms & Conditions

1. Prices: F.O.R, Guntur
2. Sales Tax: Included in above price
3. Delivery period: 2-3 weeks
4. Warranty: 1 year from the date of delivery.
5. Payment: 100% payment along with the PO.

REGISTRAR

VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Declared to be Deemed University U/S 3 of UGC Act 195
VADLAMUDI-522 213.
A.P. INDIA

CC to:
The HoD, ECE
The Convener, CPC
The Finance Officer

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No VFSTRU/REG/A8/2020-21/08 **Date: 12.12.2020**

To,

Ashish Electronics Corporation
Shop No 46, A.M.C Complex,
Governorpet, Vijayawada-2

Dear Sir,

Sub: Vignan's Foundation for Science, Technology & Research (Deemed to be University) – Purchase order for supply of Lab Consumables– Regd.

Ref: Your quotation dated 24.11.2020 and discussions with Mr. M. Sekhar, Asst Prof, Dept of ECE, VFSTR.

***

With reference to your quotation and discussions with Mr. M. Sekhar, Asst Prof, Dept of ECE VFSTR, we hereby place a purchase order for the supply of Lab Consumables as per details given below :-

S.No	Item Name	Quantity	Rate	Amount
1	1 KΩ Resistors 1/2W	1000	0.35	350
2	2 .2KΩ Resistors 1/2W	1000	0.35	350
3	330uF/63V	100	9	900
4	Diode IN4007	1000	0.75	750
5	Zinar Diode-BZ6.0V	500	0.8	400
6	9.0.9 Transformers	10	50	500
7	BFW 10 (or) 11 FET's	20	160	3200
8	Transister BC107	100	12	1200
9	Bread Board	30	140	4200
10	3 Pins Tops	25	25	625
11	2mm Multi pins (Red & Black)	100	6.5	650
13	2N5777 Photo Transistor	20	45	900
14	AAA batteries	80	8	640
15	AA Cells	80	8	640
16	AAA Holders	10	15	150

S.No	Item Name	Quantity	Rate	Amount
17	9 V batteries			
18	CRO probes(MS)	80	13	1040
19	Sleeve cutter	30	248	7440
20	Tapariya kit	10	55	550
21	Single stand wire coil	5	175	875
22	Multi stand wire coil (Red & Block 14stand wire)	10	220	2200
23	Crocodile clips (Red & Block)	4	250	1000
24	Lead 100gms	100	3.75	375
25	Soldering Rod	8	140	1120
26	Tester	4	275	1100
27	10 mm LED's (white)	10	42	420
28	Veerobo Magnetic Precision Screwdriver Tool Set-3 in 1 (Yellow)	25	3.5	87.5
29	3 Core Wire	3	250	750
30	PCB drill bits set	25	1200	1200
31	PCB cleaning isopropyl alcohol ½ Lts	2	120	240
32	Pvc Tape rolles	2	300	600
33	CR 2032 batteries	25	8	200
34	RPS-4mmRed &Black Terminals Plastic	25	14	350
35	Zorek Speay	40	20	800
36	Push button switches	5	100	500
37	Multi colour led(3mm)	20	2	40
38	Arduino UNO cables (1meter)	50	1.5	75
39	LM35 temperature sensor	20	40	800
40	DHt11 sensor	15	55	825
41	Jumper wires(M-M,M-F,F-F)	10	90	900
42	USB to mini USB cables	300	1.2	360
43	LED;s5mm Red,green,yellow)	10	60	600
44	Computer Power cables 3pin	150	1	150
45	USB chargers(5v/2A)	10	60	600
46	USB to ETHRNET	5	180	900
47	741 IC,S	3	250	750
48	555 IC,S	30	9.5	285
	[illegible]	125	5	625
	[illegible]	50	240	12000

S.No	Item Name	Quantity	Rate	Amount
50	566 IC,S	50	240	12000
51	7476 IC,S	50	68	3400
52	7474 IC,S	100	8.5	850
53	10mm led holder	20	10	200
54	7107 IC's	10	50	500
55	RTD Sensor	2	350	700
56	Piezoelectric Sensor/Buzzer/Transducer/ Disc 40mm Piezo	20	12	240
58	DMM Test Leads	25	70	1750
60	7404IC,s	100	7.5	750
61	7408IC,s	100	7.5	750
62	7402IC,s	100	7.5	750
63	7432IC,s	100	8.5	850
64	74153IC,s	50	11.5	575
65	74139IC,s	50	11	550
66	7486IC,s	50	11	550
67	7485IC,s	50	16.5	825
68	7411IC,s	50	9	450
69	Gluesticks	10	10	100
70	40 pin Zip IC Scockets	2	60	120
71	LM311 IC'S	10	9.5	95
74	CD4017BE	10	11.5	115
76	0.1,0.01,0.001 capacitor	300	0.3	90
77	10Ω,47Ω,100Ω,220Ω,330Ω,470Ω,560Ω,680Ω,1KΩ,1.2 KΩ,1.5 KΩ,2.2 KΩ,3.3 KΩ,4.7 KΩ,3.9 KΩ,5.6 KΩ,6.8 KΩ,2 KΩ,10 KΩ,12 KΩ,15 KΩ,18 KΩ,20 KΩ,22 KΩ,33 KΩ,47 KΩ,68 KΩ,82 KΩ,100 KΩ,120 KΩ,150 KΩ,180 KΩ,220 KΩ,330KΩ,470KΩ,560 KΩ,1MΩ,2MΩ&10MΩ	Each 100	1/2W-0.35	1365
	Total			**97,689/-**

Terms & Conditions:

1. Paymemt : 100% Advance
2. Transport : As per actuals
3. GST : Included

CC to
The Finance Officer
The HoD, ECE
Mr. M. Sekhar, Asst. Prof.

REGISTRAR
VIGNAN'S FOUNDATION
FOR SCIENCE, TECHNOLOGY AND RESEARCH
(Deemed to be University)
VADLAMUDI 522213
GUNTUR (DISTRICT), A.P. INDIA

VIGNAN'S
Foundation for Science, Technology & Research
(Deemed to be UNIVERSITY)
-Estd. u/s 3 of UGC Act 1956

NAAC A Accredited

PURCHASE ORDER

P.O.No: VFSTR/REG/2020-21/20

Date: 03-11-2020

To
M/s Roland Electronics
4-3-345/5, Gujarati Galli
Bank Street, Hyderabad – 500 195.
Ph: 040-24756823

Sir,

Sub: VFSTR - Purchase Order to supply of Discrete Components – Reg.
Ref: Your revised Quotation no. Nil, dated 21.07.2020.

***

With reference to your quotation and after final discussions, we hereby place a purchase order for the supply of Discrete Components as per the specifications given below.-

Sl.No.	Item Description	Qty.	Amount (Rs.)
01	**Various Sensors** Various Acuators, ICS-ADC (TI-ADC), OP-AMPS, Multiplexers, Regulators, Instrumentation amplifiers **Discrete Components:** Resistors, Capacitors, Diodes, Transistors, Led (R,G,B) Multi colour led, Bread boards, Screw driver, Stripers, Gluegun with glue sticks, Tweezwers etc.	52 Items (List enclosed)	1,52,295
		Grand Total Incl GST (Rs.)	1,52,235

The specifications of all the above equipment are as per the details provided by you through quotation.

Terms & Conditions:

1. Payment terms : 100% payment against delivery & after verification of the components by University Officials.
2. Delivery Period : within one week from the date of receipt of order
3. Transportation : Free of cost
4. Warranty : Test guarantee on Hardware boards

REGISTRAR
VIGNAN'S FOUNDATION
SCIENCE, TECHNOLOGY AND RE
(Deemed to be University)
VADLAMUDI-522 213
GUNTUR (DISTRICT), A.P. IN

Copy to:
The Finance Officer
The HoD, ECE

GST IN NO : 37ACAPM1683R1Z0

TAX INVOICE

CASH / CREDIT

Sri Rajendra Gurubhyo Namah

ASHISH ELECTRONIC CORPORATION

Shop No. 46, A.M.C. Complex, Governorpet, VIJAYAWADA - 520 002

✆ 0866 - 6628411
98491 95322,
98495 70669

☐ Orginal for Receipient
☐ Duplicate for Supplier / Transporter
☐ Triplicate for Supplier

TAX is Payable on Reverse Charge : (YES / NO)

Invoice No. 160 Invoice Date

State ANDHRA PRADESH State Code 37

Transport Name

No. of Packages

Vehicle No.

Date of Supply

Details of Receiver | Billed to

Name

Address

GSTIN / UIN

State State Code

	Description of Goods	HSN Code	Qty	UNIT RATE	TOTAL AMOUNT

Electronic Reference No.

Invoice Value in Words

TOTAL TAXBLE VALUE

ADD : CGST

ADD : SGST

ADD : IGST

TOTAL AMOUNT

Bank Details : IDBI BANK,
GOVERNORPET BRANCH, VIJAYAWADA - 2.
A/C No. 0151102000010654 , IFSC : IBKL0000151

Terms & Conditions

1. Goods Once sold cannot be taken back.
2. All Disputes are subject to Vijayawada Jurisdiction.
3. Seller is Not Responsible for any Loss or Damaged of Goods in Transit.

Certified that the particulars given above are true and correct.
For ASHISH ELECTRONIC CORPORATION

Signature

GST IN NO : 37ACAPM1683R1Z0

TAX INVOICE

CASH / CREDIT

0866 - 6628411
98491 95322
98495 70669

"Sri Rajendra Gurubhyo Namah"

ASHISH ELECTRONIC CORPORATION

Shop No 46 A.M.C. Complex, Governorpet, VIJAYAWADA - 520 002.

☐ Orginal for Receipient
☐ Duplicate for Supplier / Transporter
☐ Triplicate for Supplier

TAX is Payable on Reverse Charge : (YES / NO)

Transport Name

Invoice No 161 Invoice Date

No. of Packages

Vehicle No

State ANDHRA PRADESH State Code 37

Date of Supply

Details of Receiver | Billed to

Name

Address

State State Code

GSTIN/UIN

S.No	Description of Goods	HSN Code	Qty	UNIT RATE	TOTAL AMOUNT

Electronic Reference No.

Invoice Value In Words

TOTAL TAXBLE VALUE		
ADD CGST		
ADD SGST		
ADD IGST	—	—
TOTAL AMOUNT		

Bank Details : IDBI BANK
GOVERNORPET BRANCH, VIJAYAWADA-2
A/C No.0151102000010654 , IFSC - IBKL0000151.

Terms & Conditions
1. Goods Once sold cannot be taken back.
2. All Disputes are subject to Vijayawada Jurisdiction.
3. Seller is Not Responsible for any Loss or Damaged of Goods in Transit.

Certified that the particulars given above are true and correct.
For ASHISH ELECTRONIC CORPORATION

Signature

GST IN NO : 37ACAPM1683R1Z0

TAX INVOICE

CASH / CREDIT

Sri Rajendra Gurubhyo Namah

ASHISH ELECTRONIC CORPORATION

Shop No :46, A.M.C. Complex, Governorpet, VIJAYAWADA - 520 002.

✆ 0866 - 6628411
98491 95322
98495 70669

☑ Orginal for Receipient
☐ Duplicate for Supplier / Transporter
☐ Triplicate for Supplier

TAX is Payable on Reverse Charge (YES / NO)

Invoice No: 162 Invoice Date

State: ANDHRA PRADESH State Code: 37

Transport Name

No. of Packages

Vehicle No

Date of Supply

Details of Receiver | Billed to

Name:

Address:

GSTIN / UIN State State Code: 37

S.No	Description of Goods	HSN Code	Qty	UNIT RATE	TOTAL AMOUNT

Electronic Refernce No

Invoice Value in Words

TOTAL TAXBLE VALUE		1850
ADD CGST	9%	166.50
ADD SGST	9%	166.50
ADD IGST	—	—
TOTAL AMOUNT		1983

Bank Details: IDBI BANK
GOVERNORPET BRANCH VIJAYAWADA -2
A/C No. 0151102000010654 - IFSC - IBKL0000151

Terms & Conditions:
1. Goods Once sold cannot be taken back.
2. All Disputes are subject to Vijayawada Jurisdiction.
3. Seller is Not Responsible for any Loss or Damaged of Goods in Transit.

Certified that the particulars given above are true and correct.
For ASHISH ELECTRONIC CORPORATION

Signature

GST IN NO : 37ACAPM1683R1Z0

TAX INVOICE

CASH / CREDIT

0866 - 6628411
98491 95322
98496 70669

"Sri Rajendra Gurubhyo Namah"

ASHISH ELECTRONIC CORPORATION

Shop No. 46, A.M.C. Complex, Governorpet, VIJAYAWADA - 520 002

☐ Orginal for Receipient
☐ Duplicate for Supplier / Transporter
☐ Triplicate for Supplier

TAX is Payable on Reverse Charge (YES / NO)

Invoice No 163 Invoice Date

State ANDHRA PRADESH State Code 37

Transport Name

No. of Packages

Vehicle No

Date of Supply

Details of Receiver / Billed to

Name

Address

GSTIN / UIN State State Code

S.No	Description of Goods	HSN Code	Qty	UNIT RATE	TOTAL AMOUNT

Electronic Reference No.

Invoice Value in Words

TOTAL TAXBLE VALUE		
ADD CGST		
ADD SGST		
ADD IGST		
TOTAL AMOUNT		

Bank Details IDBI BANK
GOVERNORPET BRANCH, VIJAYAWADA - 2
A/C No. 0151102000010654 IFSC IBKL0000151

Terms & Conditions

1. Goods Once sold cannot be taken back.
2. All Disputes are subject to Vijayawada Jurisdiction.
3. Seller is Not Responsible for any Loss or Damaged of Goods in Transit.

Certified that the particulars given above are true and correct.

For ASHISH ELECTRONIC CORPORATION

Signature

GST IN NO 37ACAPM1683R1Z0

TAX INVOICE

~~CASH~~ / CREDIT

0866 - 6628411
98491 95322
98495 70669

Sri Rayendra Gurubhyo Namah

ASHISH ELECTRONIC CORPORATION

Shop No. 46, A.M.C. Complex, Governorpet, VIJAYAWADA - 520 002

☐ Orginal for Receipient
☐ Duplicate for Supplier / Transporter
☐ Triplicate for Supplier

TAX is Payable on Reverse Charge (YES / NO)

Invoice No. 164 Invoice Date

State ANDHRA PRADESH State Code 37

Transport Name

No. of Packages

Vehicle No.

Date of Supply

Details of Receiver | Billed to

Name

Address

GST N / UIN State State Code

S.No.	Description of Goods	HSN Code	Qty.	UNIT RATE	TOTAL AMOUNT

Electronic Refernce No.

Invoice value in Words

TOTAL TAXBLE VALUE	
ADD CGST	
ADD SGST	
ADD IGST	—
TOTAL AMOUNT	

Bank Details IDBI BANK
GOVERNORPET BRANCH VIJAYAWADA - 2
A/C No. 0151102000010654 IFSC - IBKL0000151

Terms & Conditions

1. Goods Once sold cannot be taken back.
2. All Disputes are subject to Vijayawada Jurisdiction.
3. Seller is Not Responsible for any Loss or Damaged of Goods in Transit.

Certified that the particulars given above are true and correct
For **ASHISH ELECTRONIC CORPORATION**

Signature

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. VIGNAN's Foundation for Science Technology & Research
GUNTUR Cell:

GST No:

CR 20-21
Bill No. 433 Date : 12/11/20

DC No. : Date :
P.O. No. : Date :

UFSTR/Rec/2020-21/20

S.No	DESCRIPTION	HSN	QTY.	UNIT PRICE	18%	28%
1.	HC SR-04 Ultrasonic Sensor	8538	10		750.00	
2.	LM35	8542	56		2600.00	
3.	RTD PT100	9032	10		1250.00	
4.	Flex Sensor	9032	10		3600.00	
5.	Capacitive Sensor	9032	20		4500.00	
6.	Inductive Sensor	9032	10		1900.00	
7.	Strain Sensor	9032	15		2625.00	
8.	PIEZO Electrical Sensor	9032	20		300.00	
9.	Pressur Sensor Bmp180	8538	20		3600.00	
10.	Force Sensor	9032	10		3600.00	
11.	ADXL 337 Accelerometer	8538	20		2500.00	
12.	PIR Sensor	8538	10		680.00	
13.	MPU 6050 Gyrometer	8538	10		1250.00	

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

Sub Total		30655.00
SGST		
CGST		
IGST (Inter State sale)		
R/O		
TOTAL		
TOTAL A+B		

☐ Cash ☐ Cheque

☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. Cash

Cell:

GST No:

CR 20-21
Bill No. 434 Date :

DC No. : Date :
P.O. No. : Date :

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	5%	28%
			Amt	Bill	30655.00	
1	Finger print sensor R305	8538	10		11000.00	
	Rs 43738.00					

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

Sub Total	41655.00
SGST	
CGST	
IGST (Inter State sale)	2082.75
R/O (+)	0.25
TOTAL	
TOTAL A+B	43738.00

☐ Cash ☐ Cheque

☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. Vignan Foundation for Science Technology & Research Centre Cell:

GST No:

CR 20-21 Bill No. 435 Date : 18/11/20
DC No. : Date :
P.O. No. : Date :
VFSTR/Rec/2020-21/28

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	5%	28%
1	Rpm Sensor	8538	15		1875.00	
2	MQ135 Air Quality Module	"	10		1250.00	
3	Lidar Sensor	8538	10		28500.00	
4	Water level Sensor	8538	10		450.00	
5	DC Motor	8501	20		1100.00	
6	S/Motor	8501	10		1250.00	
7	Solenoid valve	8481	20		2500.00	
8	Servo Motor SG90	8501	20		1700.00	
9	741 IC	8542	50		375.00	
10	555 IC	8542	50		200.00	
11	TL084 IC	8542	50		900.00	
12	LM358 IC	8542	50		400.00	
13	74LS00	8542	50		400.00	

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

CONT

Sub Total C/F	40900.00	
SGST		
CGST		
IGST (Inter State sale)		
R/O		
TOTAL		
TOTAL A+B		

☐ Cash ☐ Cheque
☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. CONT ?

Cell:

GST No:

CR 20-21
Bill No. 436 Date :

DC No. : Date :
P.O. No. : Date :

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	18%	28%
			Amt	B/F	48900.00	
1	7402	8542	50		450.00	
15	7404	"	50		400.00	
16	7432	8542	50		600.00	
17	7408	8542	50		400.00	
18	7486	8542	50		750.00	
19	7474	8542	50		750.00	
20	74153	8542	50		750.00	
21	7411	8542	50		750.00	

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

Sub Total	45750.00	
SGST		
CGST		
IGST (Inter State sale)	2287.50	
R/O (-)	0.50	
TOTAL		
TOTAL A+B	48038.00	

☐ Cash ☐ Cheque

☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. Vignan Foundation for Science Tech
& Research Country Cell:

GST No:

CR 20-21
Bill No. 437 Date : 19/4/20
DC No. : Date :
P.O. No. : Date :
VFSTR/Rech/2020-21/20

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	18%	28%
1	555 IC	8542	50		17500.00	
2	3086 IC	8542	50		6250.00	
3	MC1496 IC	8542	50		3750.00	
4	74176 IC	8542	50		8750.00	
5	7490 IC	8542	50		2750.00	
6	7473 IC	8542	50		1750.00	
7	7486 IC	8542	50		2725.00	
8	707 IC	8542	50		2750.00	

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

Sub Total		46225.00	
SGST			
CGST			
IGST (Inter State sale)		2311.25	
R/O	(-)	0.25	
TOTAL			
TOTAL A+B		48536.00	

☐ Cash ☐ Cheque

☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. Vignan Institution of Science Technology
& Research Guntur Cell:

GST No:

CR 20-21
Bill No. 441 Date : 20/11/20

DC No. : Date :

P.O. No. : VFSTR/REC/2020-21/20 Date :

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	18%	28%
1	Regulators 7805/7809/7905/7812/7912/7824	8542	140		1260.00	
2	ADC20 IC	8542	20		4200.00	
3	Resistors	8532	100		25.00	
4	Capacitors	8532	100		50.00	
5	Diode 1N4148/4007/5V1	8541	50		50.00	
6	Bc107	8541	50		600.00	
7	Led's	8541	200		850.00	
8	Bread boards	8536	20		1100.00	
9	S/D Set	8203	5		625.00	
10	Stripper	8203	5		100.00	
11	Cnlw gun & sticks	8513	10		2000.00	
12	Tweezer	8203	10		300.00	
13	Multistrand wire	8544	1		275.00	

CONT

Sub Total c/f	11525.00	
SGST		
CGST		
IGST (Inter State sale)		
R/O		
TOTAL		
TOTAL A+B		

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

☐ Cash ☐ Cheque

☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

TAX INVOICE

Phone : 040-24756823
24762746

ROLAND ELECTRONICS

Deals in : INDUSTRIAL ELECTRONICS AND ELECTRICAL SPARES
4-3-345/5, GUJRATHI GALI, BANK STREET, KOTI, HYDERABAD - 500 095.
E-mail : rolandelehyd@hotmail.com

To,
M/s. Cont ?

Cell:

GST No:

CR 20-21
Bill No. 442 Date :

DC No. : Date :
P.O. No. : Date :

S.No.	DESCRIPTION	HSN	QTY.	UNIT PRICE	18%	28%
			Amt B/F		11525.00	
1	Single strand wire	8544	1		225.00	
2	PCB boards	8536	125		230.00	
3	PCB	8534	50		900.00	
4	Tape	3923	10		100.00	
5	4 S Relay Module	8538	10		2400.00	
6	ESP 8266-01	8538	5		725.00	
7	Jumper Wire	8544	500		550.00	
8	Neo 6M GPS	8538	5		1950.00	

COMPANY BANK DETAILS :

Bank Name : HDFC Bank, Koti Branch

A/c : 19978730000296

IFSC Code : HDFC0001997

GST No: 36ACVPK3226F1ZH

Sub Total	18805.00		
SGST			
CGST			
IGST (Inter State sale)	930.25		
R/O	0.25		
TOTAL			
TOTAL A+B	19535.00		

☐ Cash ☐ Cheque

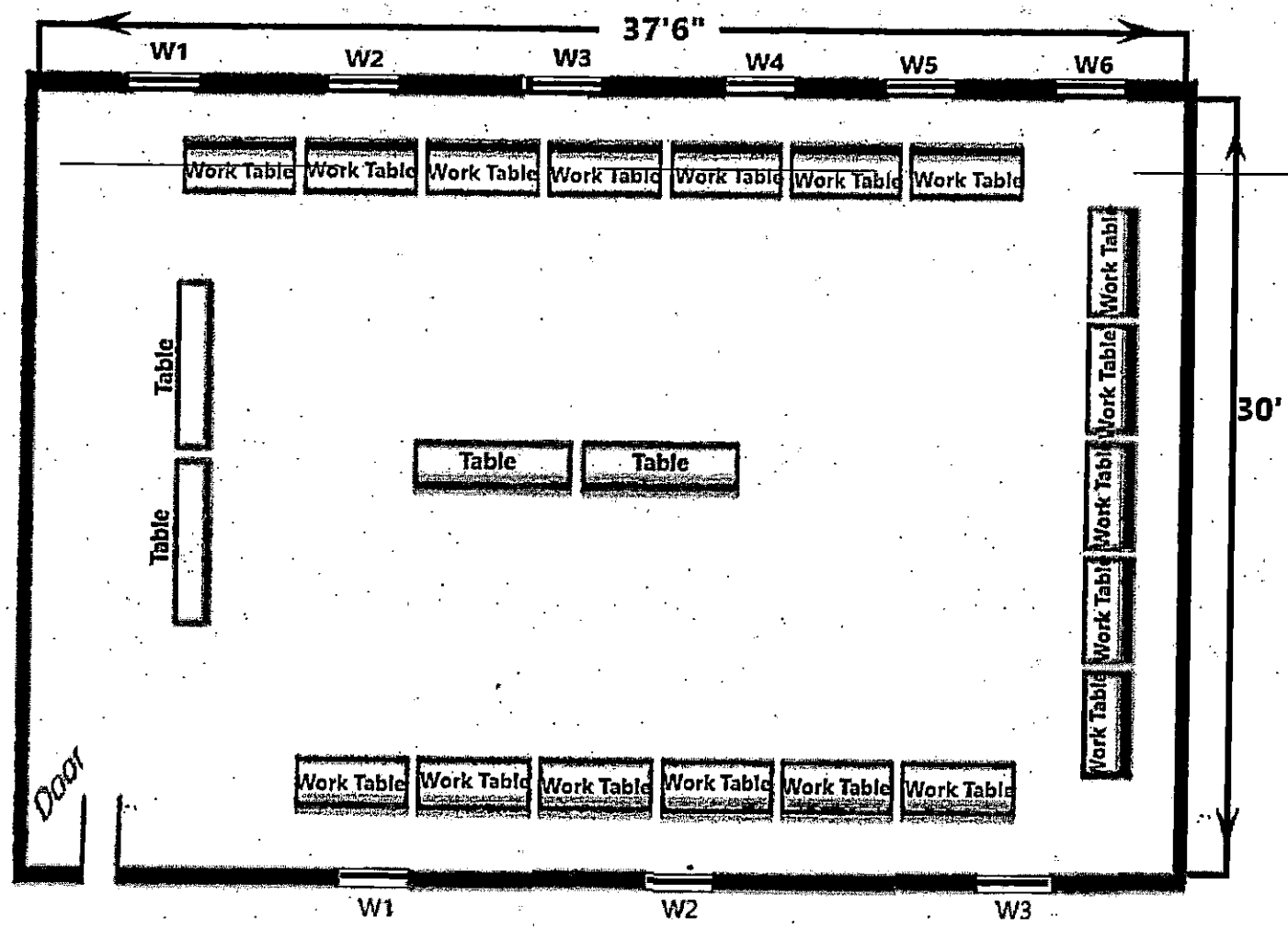
☐ Card ☐ NEFT Date:

1) Goods once sold will not be taken back
2) Subject to Hyderabad Jurisdiction
3) Payment against delivery
4) Check the quantity before delivery

For ROLAND ELECTRONICS

E.O.E.

Department of Electronics and Communication Engineering
Central Instrumentation Centre (CIC) VTF-10



Area : 104.51 sq.ft
Lab Capacity : 35 Students

Signature of the Lab Incharge