

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE, JAIPUR



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AND RESEARCH CENTRE**

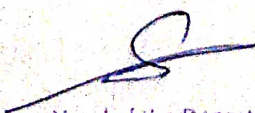
**Add-On Course
On
Embedded System Design and IOT**

Department of Electronics and Communication

Session 2020-21

Prepared by:

**Mr. Ashish Sharma
Assistant Professor**


**Head of the Department
Electronics & Communication Engineering
JECRC, Jaipur**

JECRC
Electronics and Communication Department

VISION

To provide an excellent platform to students to grow professionally with an impeccable blend of technology and creativity.

MISSION

- To inculcate in students the sense of ethics, morality, professionalism, creativity, leadership, self confidence, good communication skills and prepare them to become successful engineers.
- To develop professionals that has strong knowledge and clear thinking of the subject.
- To nature engineers with over all development so that they can contribute for development of society.



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Content

1. Notices, Circulars and Brochure
2. Time Table
3. Minutes of Meeting
4. Participants list
5. Attendance sheet
6. Geotagged Photographs with date and caption for each scheme or event.



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Jaipur Engineering College and Research Center

Department of Electronics and Communication

Notice

From HOD, ECE	Students
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Date -20/08/2020

Certification courses on

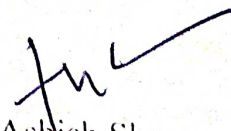
This is to inform all students that Department of Electronics and Communication in association with Techninet India Pvt Ltd is conducting a certification courses on *Embedded System Design and IOT* for B.Tech III Semester 2023 batch. Those students who are interested can contact to Mr. Ashish Sharma, Assistant professor, ECE for more information.

The courses will be conducted in month of December.



Prof.(Dr.) Sandeep Vyas
Head of Department

Head of the Department
Electronics & Communication Engineering
JECRC, Jaipur



Mr. Ashish Sharma
Assistant Professor

Ad-on Course Report

Certification Course on

"Embedded System and IOT"

Department of Electronics and Communication Engineering, Jaipur Engineering College & Research Center (JECRC), Jaipur has organized a Certification course on " **Embedded System and IOT**", in association with Techinest Pvt Ltd - JECRC from 12/09/2020 to 20/10/2020 . All registered participants received -certificates after the end of session and submitted feedback form.

Registration for this event was done by using goggle form and it is free.

The tutor for this certification courses was Mr. Siddharth Singh and Mr. Piyush Sanam.

The brief bio of speaker is attached as follow.


About the Speaker:

PEEYUSH SANAM New-Challenge earning Professional Application Developer & Trainer (B.Tech in Electronics & Communication Engineering) from last 6 Years in the field of Internet of Things and Artificial Intelligence, along with a rich experience in the Computer Vision & Machine Learning Technologies using Python & Embedded C++ for effective and optimized solutions.

Trained 6000+ Students in the field of Electronics & IT related domains during Workshop and Bootcamp Trainings.

- Trained Corporate Professionals from prestigious companies like cardekho.com, Reliance Jio, Genus, Ebay, Eriesson, IBM, Dotsquare, HHH, Genpact, TCS, Wipro, Secretariat Jaipur and more.

- Delivered 60+ Practical Workshop and numerous sessions on various topics related to Internet of Things (IoT), Artificial Intelligence, Machine Learning, Robotics, Sixth Sense technology, Image Processing, Embedded Systems Design and Manufacturing, at different renowned Engineering/Technical Institutions pan India, including o IITs (Jodhpur, Dhanbad, Mandi), NITs (Kerala, Rourkela, Jaipur, Raipur, Bhopal, Agartala), Government Universities (RTU, NMU, DTU, MPTU, UPTU etc.) Private Universities (like BITS, Amity, LNMIIT, Poornima, JECRC) and more..



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Summary:

Certification Course : 1
Date : 12/09/2020 to 20/10/2020
Topic : Embedded System and IOT
Invited Speaker : Mr Siddharth Singh and Mr. Piyush Sanam.
Participants attended the event : 189

EMBEDDED SYSTEMS & IoT

Explore for the Realms of Possibility

"Implementation of Control & Monitoring the Real-Time Embedded Devices using the power of INTERNET by building an IoT Application Environment"

Think of a human being in whom body works like a HARDWARE and brain as SOFTWARE!! This very question heated up mind of embedded engineer!!!

Our brain simulates our senses and provides a command to perform a specific task. So, Embedded System can be explained as a combination of hardware and software which is designed to perform a specific task at specific time. It brings knowledge of Electronics Engineer, electrical engineering and computer engineering together. So, both the things are necessary for proper functioning. And this is about how to get into the field of Embedded Systems & Robotics and make it as a career option.

Internet of Things is surely taking our world by storm. 2008 was the turning point when there were more 'Things' connected to the Internet than humans. Now the number of internet connected things is growing exponentially bringing in new job roles and career opportunities to those who are proficient in IoT technology, deployment, management and security.


Why should you learn this?

1. Plethora of Possibilities
2. Number of applications like transport, cars, offices, homes, etc. lead to plenty of projects in a line, and hence require a lot of talented Minds.
3. A combination of Several Technologies
4. With this course, learner will get through with Embedded Systems and IoT starting from scratch to real-time scenarios and solutions

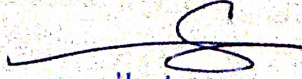

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Syllabus

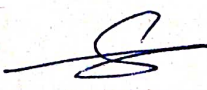
EMBEDDED SYSTEMS & IoT			
Duration – 4/6 Weeks (70 Hours)			
1	Introduction	<ul style="list-style-type: none"> IoT Definition & Emergence Real World applications of IoT Architecture; Technology Stack; Hardware and Software Platforms; Role of Embedded Systems in IoT Features of AVR Mega328/2560 based Arduino Description of Complete Hardware Structure & Pin-out Introduction with Embedded C++ Programming an Arduino Board Practical 1: ... 	1 Hour
2	GPIO	<ul style="list-style-type: none"> Configuring I/O and controlling I/O Setting mode of pin as input and output Driving pin high and low LED Interfacing Practical 2: Interfacing ... Practical 3: ... Practical 4: ... 	2 Hours
3	GPIO	<ul style="list-style-type: none"> Working of Relay & Buzzer Practical 5: ... Practical 6: ... PROJECT 1: "Timer Based Alarm" 	1 Hour
4	Liquid crystal Display	<ul style="list-style-type: none"> Introduction to 16-2 LCD LCD programming with Arduino Practical 7: ... Practical 8: ... Writing order change 	1 Hour
5	Liquid Crystal Display	<ul style="list-style-type: none"> Custom character on LCD Practical 9: Generating Custom Characters PROJECT 2: "Message Display Screen" 	1 Hour
6	Keys/Switches	<ul style="list-style-type: none"> Concept of Pullup and Pulldown The types of switches Practical 10: ... PROJECT 3: "Flying Butterfly Game" 	1 Hour
7	Keypad Matrix	<ul style="list-style-type: none"> Working of Keypad Matrix Practical 11: ... PROJECT 4: "Basic Calculator" 	1 Hour
8	PWM & Timer	<ul style="list-style-type: none"> PWM in Arduino Practical 12: ... Timer Configuration for Tone Generation 	1 Hour


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		<ul style="list-style-type: none"> • Counter Usage for Time Calculation • PROJECT 5: "SA RE GYA MA Generator" 	
9	Motors	<ul style="list-style-type: none"> • DC Motor: Working, Motor Driver Circuit; H-Bridge Concept • Practical 15: Control of DC Motor • Servo Motor: Servo Mechanism, Working • Practical 16: Control of Servo Motor • Stepper Motors: Working & Driver • Practical 17: Interfacing Stepper Motor • PROJECT 6: "PC Controlled Door Lock" 	2 Hours
10	Serial Communication	<ul style="list-style-type: none"> • Serial Communication with Arduino • Practical 18: Interfacing of Serial Communication • PROJECT 7: "Virtual Digital Notice Display" 	
11	Sensors – Part 1	<ul style="list-style-type: none"> • Using inbuilt ADC of Arduino • Voltage Comparator IC for Digital Mode • IR Sensor – Concept, Working Circuit, Interfacing • Flame Sensor – Concept, Working, Interfacing • Flex Sensor – The Resistivity Principle, Interfacing • Practical 19: Interfacing of Flex Sensor 	
12	Sensors – Part 2	<ul style="list-style-type: none"> • LDR Sensors: Definition, Phenomenon • Practical 21: Taking Analog Light Intensity Value • PROJECT 8: "Torch Operated Bulb" • Temperature Sensor: Construction, Concept, Scaling Factor • Practical 22: Interfacing of Temperature Sensor • PROJECT 9: "Smart Home Fan/Cooler" 	2 Hours
13	Sensors – Part 3	<ul style="list-style-type: none"> • Gas Sensor: Construction, Concept • PIR Sensor: Concept & Working • Ultrasonic Sensor: Concept of Ultrasonic Waves • Working of HC-SR04 • Practical 23: Interfacing of Ultrasonic Sensor • PROJECT 10: "Smart Parking Sensor with LED" 	
14	Bluetooth & RF	<ul style="list-style-type: none"> • Radio Frequency Communication • Protocol, Range, Application • Bluetooth Module Working • Practical 25: Connecting Bluetooth with External Device • Practical 26: Connecting Bluetooth with Mobile Phone • SoftwareSerial Library with Arduino • Practical 26: Connecting Bluetooth with Mobile Phone • SoftwareSerial 	2 Hours



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		<ul style="list-style-type: none"> PROJECT 11: "MCU Controlling in Mesh" Bluetooth AT Commands 	
15	EEPROM	<ul style="list-style-type: none"> Significance, Description, Capacity Practical 27: Accessing & Modifying Data in the EEPROM PROJECT 12: "Password Protection System with Password Changing Feature" 	2 Hours
16	IoT Platform	<ul style="list-style-type: none"> Basic Concepts of Networking (Types, Topologies, IP, HTTP, URL) Various Data Handling Requests in HTTP What is IoT Platform? What is API? Practical 28: ... 	
17	IoT Communication	<ul style="list-style-type: none"> Understanding the WiFi & GSM Modules The AT Commands for HTTP Practical 29: ... 	2 Hours
18	Project	<ul style="list-style-type: none"> Introduction with Python Raspberry Pi Working Simulation using Python Syncing Python script with Hardware PROJECT 13: "IoT Data Logger" 	2 Hours
19	IoT Platform – 2	<ul style="list-style-type: none"> Using IoT Platform to Control MCU Practical 30: ThingSpeak IoT Platform for Hardware Controlling Decision Making over IoT Platform Practical 31: ... 	2 Hours
20	MQTT	<ul style="list-style-type: none"> Understanding Message Queueing Telemetry for IoT The concept of Subscribers and Publishers Setting up MQTT on Python Practical 32: ... PROJECT 14: "IoT based Private Chat Room" 	2 Hours
21	MQTT – 2	<ul style="list-style-type: none"> Adafruit IoT Platform for MQTT PROJECT 15: "IoT based Smart Light Controlling" PROJECT 16: "Live Data Monitoring & Controlling Panel" 	2 Hours
22	MQTT – 3	<ul style="list-style-type: none"> IFTTT IoT Platform for Multi-platform communication PROJECT 17: "Voice Controlled Smart Fan" 	2 Hours
23	IoT Web Application – HTML CSS	<ul style="list-style-type: none"> Brief of HTML & CSS Programming for Web Design Practical 33: ... 	2 Hours
24	IoT Web Application – Flask	<ul style="list-style-type: none"> Flask with Python for Web Development Taking Input Variables through URLs Using Redirections Accepting Requests Rendering the HTML Templates 	2 Hours


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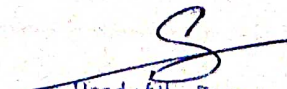
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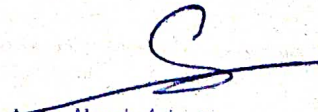
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121	19EJCEC163	RISHABH MAHLA	ECE	rishabhmahla.ece23@jecrc.ac.in
122	19EJCEC164	RISHABH MISHRA	ECE	rishabhmishra.ece23@jecrc.ac.in
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124	19EJCEC167	RITURAJ SINGH RATHORE	ECE	riturajsinghrathore.ece23@jecrc.ac
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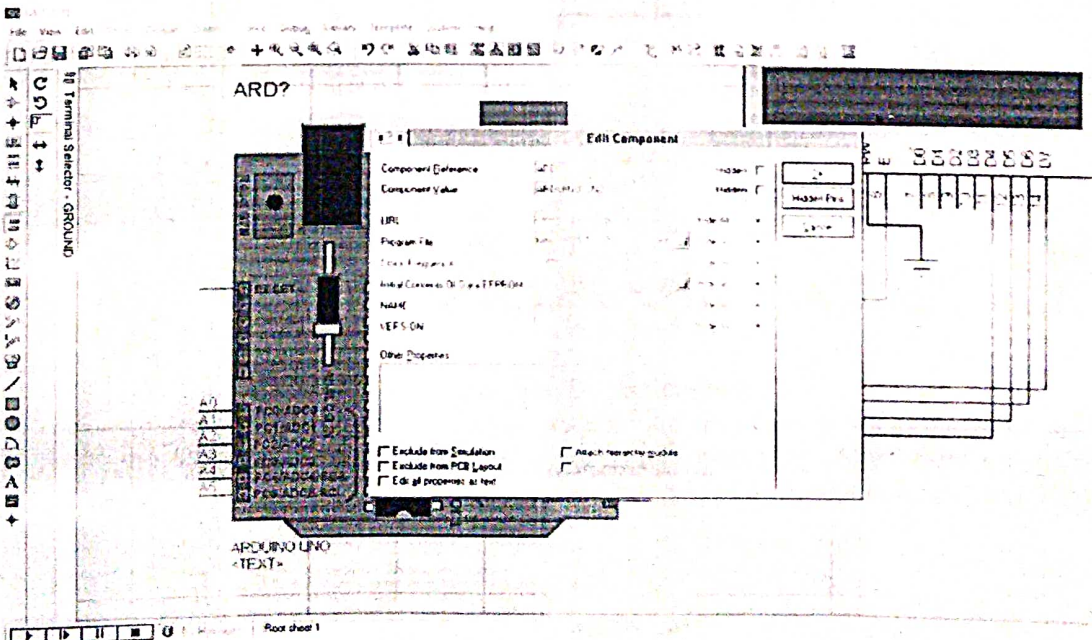
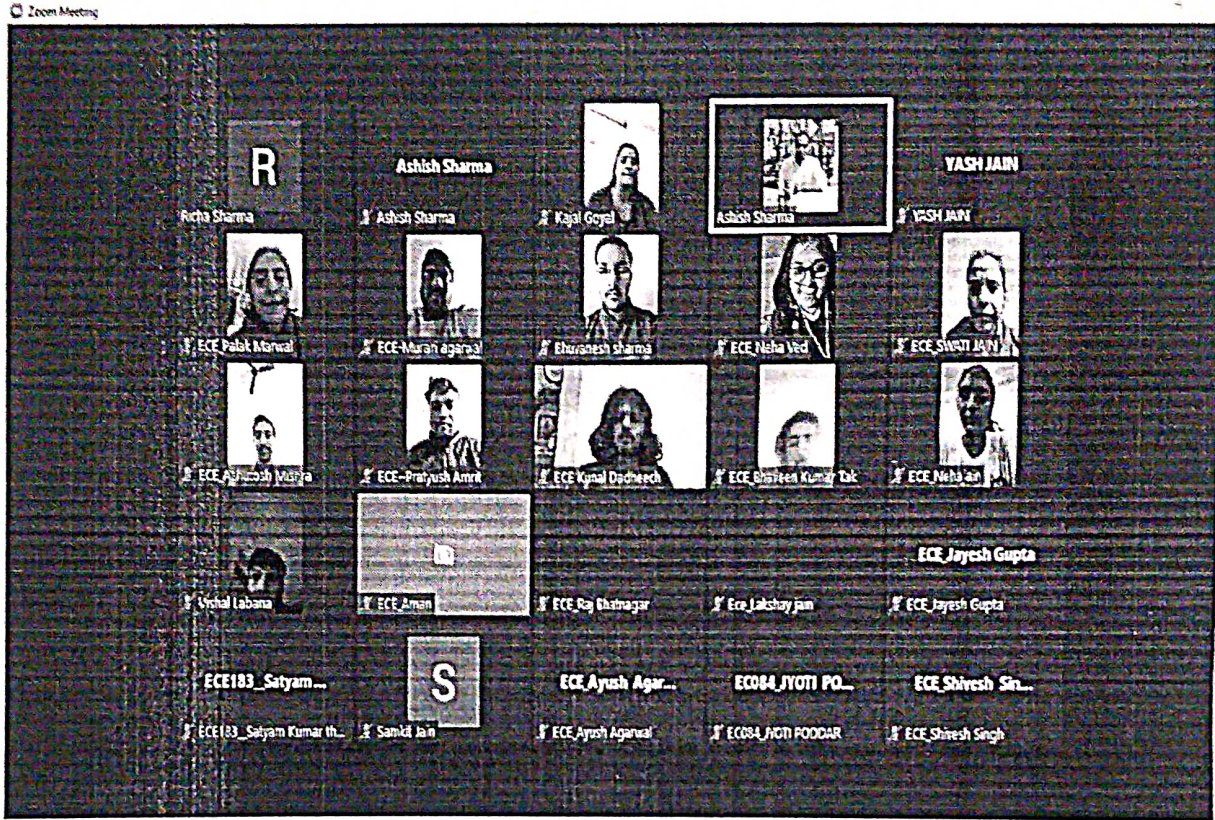
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127	19EJCEC170	ROHITH KUMAR SAINI	ECE	
128	19EJCEC171	RONAK GOYAL	ECE	ronakgoyal.ece23@jecrc.ac.in
129	19EJCEC172	ROUSHAN RAJ	ECE	roushanraj.ece23@jecrc.ac.in
130	19EJCEC173	SACHIT BANSAL	ECE	
131	19EJCEC174	SAGAR JAIN	ECE	sagarjain.ece23@jecrc.ac.in
132	19EJCEC175	SAKET SHARMA	ECE	
133	19EJCEC176	SAKSHAM ARYA	ECE	
134	19EJCEC177	SAKSHI JAISWAL	ECE	sakshijaiswal.ece23@jecrc.ac.in
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136	19EJCEC179	SAKSHI SHARMA	ECE	sakshisharma.ece23@jecrc.ac.in
137	19EJCEC180	SAMBHAV AGARWAL	ECE	
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140	19EJCEC183	SATYAM KUMAR THAKUR	ECE	satyamkumarthakur.ece23@jecrc.ac.in
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175	19EJCEC822	VIPUL KHANNA	ECE	vipulkhanna.ece23@jecrc.ac.in
176	19EJCEC823	VISHAKHA JAJOO	ECE	vishakhajajoo.ece23@jecrc.ac.in
177	19EJCEC824	VISHAL JAIN	ECE	vishaljain.ece23@jecrc.ac.in
178	19EJCEC827	VRINDAA JOSHI	ECE	vrindaajoshi.ece23@jecrc.ac.in
179	19EJCEC828	YAMINI KUMAWAT	ECE	yaminikumawat.ece23@jecrc.ac.in
180	19EJCEC829	YASH JAIN	ECE	yashjain2.ece23@jecrc.ac.in
181	19EJCEC830	YASH JAIN	ECE	yashjain.ece23@jecrc.ac.in
182	19EJCEC831	YASH SETHIA	ECE	yashsethia.ece23@jecrc.ac.in
183	19EJCEC832	YASH SONI	ECE	yashsoni.ece23@jecrc.ac.in
184	19EJCEC833	YASH TANK	ECE	yashtank.ece23@jecrc.ac.in
185	19EJCEC835	YASHIKA SARASWAT	ECE	yashikasarswat.ece23@jecrc.ac.in
186	19EJCEC836	YASHWANT TAILOR	ECE	yashwanttailor.ece23@jecrc.ac.in
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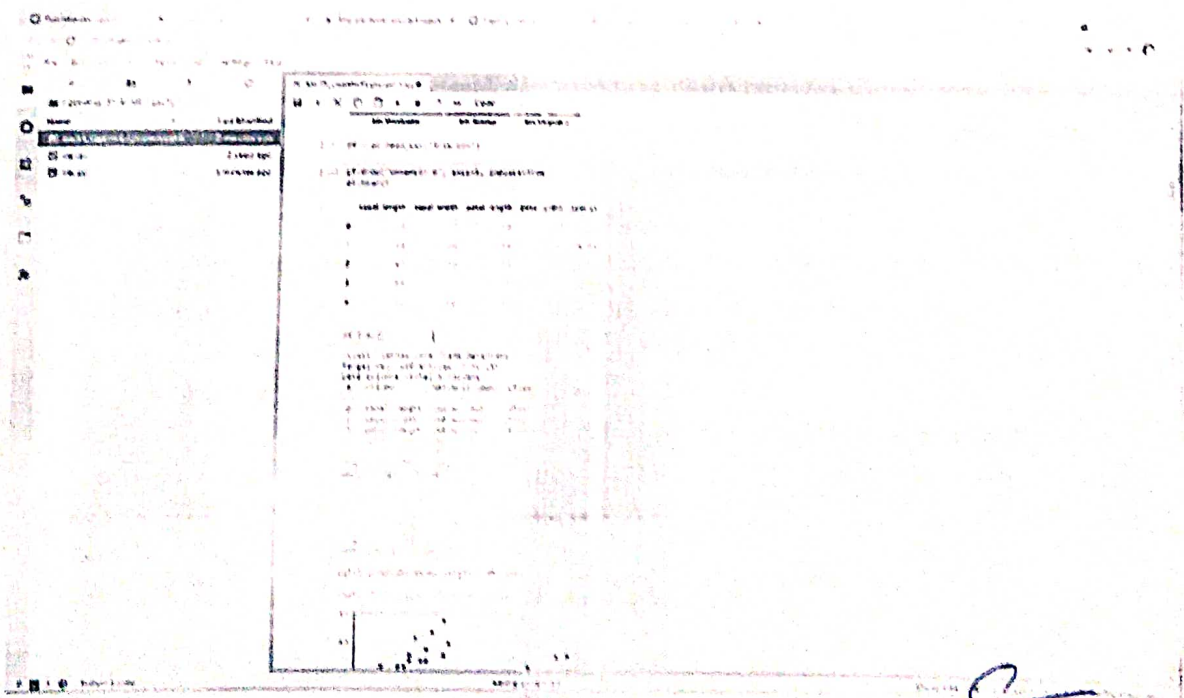
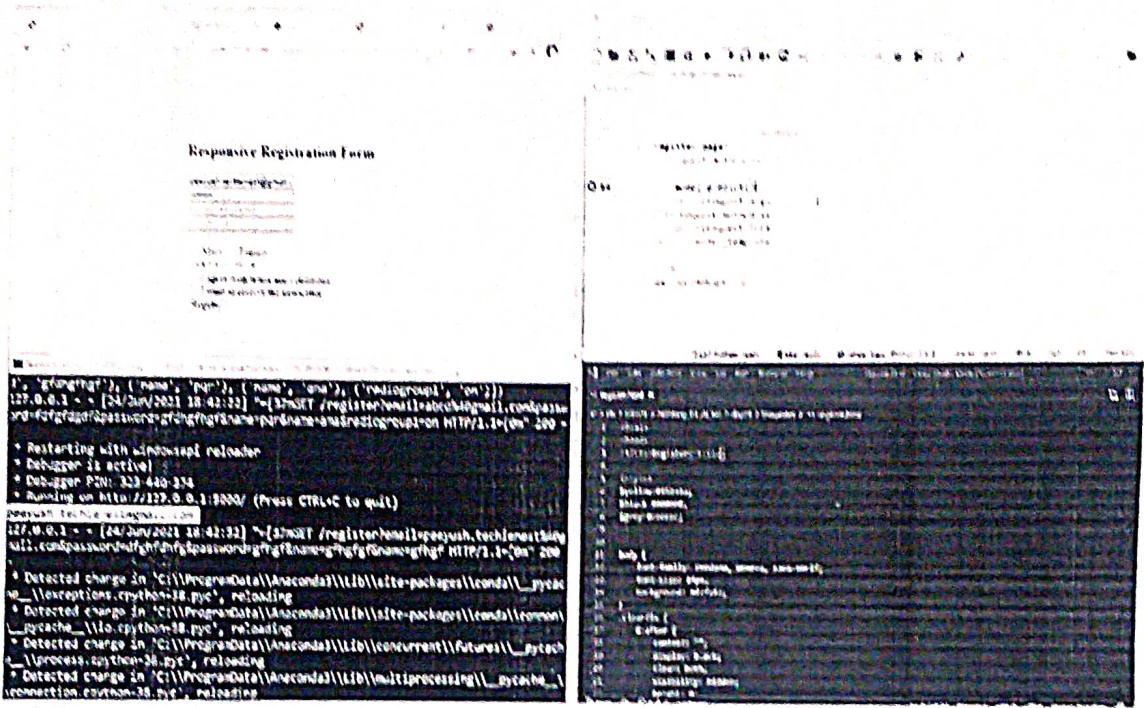
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