3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge.

Report on R & D Centre Innovations Activity

The institution has set up an innovation ecosystem to foster a culture of innovation among the young talents in the campus. The institution keeps up the ecosystem more vibrant and conducive with state-of-the-art infrastructure and suitable scholarly human resources.

The sole objective of the R&D Centre is to facilitate students to convert their Ideas into Technological Innovations. Students are provided facilities to build prototypes useful for promotion of Development of Society. Financial Assistance is provided for major and minor Projects.

we are here exhibiting some of the innovations of the students and patents published by faculty as the outcome of R & D.

1. Smart Walking Stick for Blind and Old Aged People

A foot stick based totally on ultrasonic sensors and Arduino for visually impaired human beings. People with seen disabilities are often relying on outdoor help which may be provided with the beneficial resource of people, educated puppies, or unique virtual gadgets as assist structures for desire making. Thus, we had been endorsed to growth a clever white cane to overcome the ones boundaries. We finished this cause with the beneficial useful resource of the use of adding ultrasonic sensors at particular positions to the cane that supplied statistics about the surroundings to the customer via the usage of manner of activating the buzzer sound.
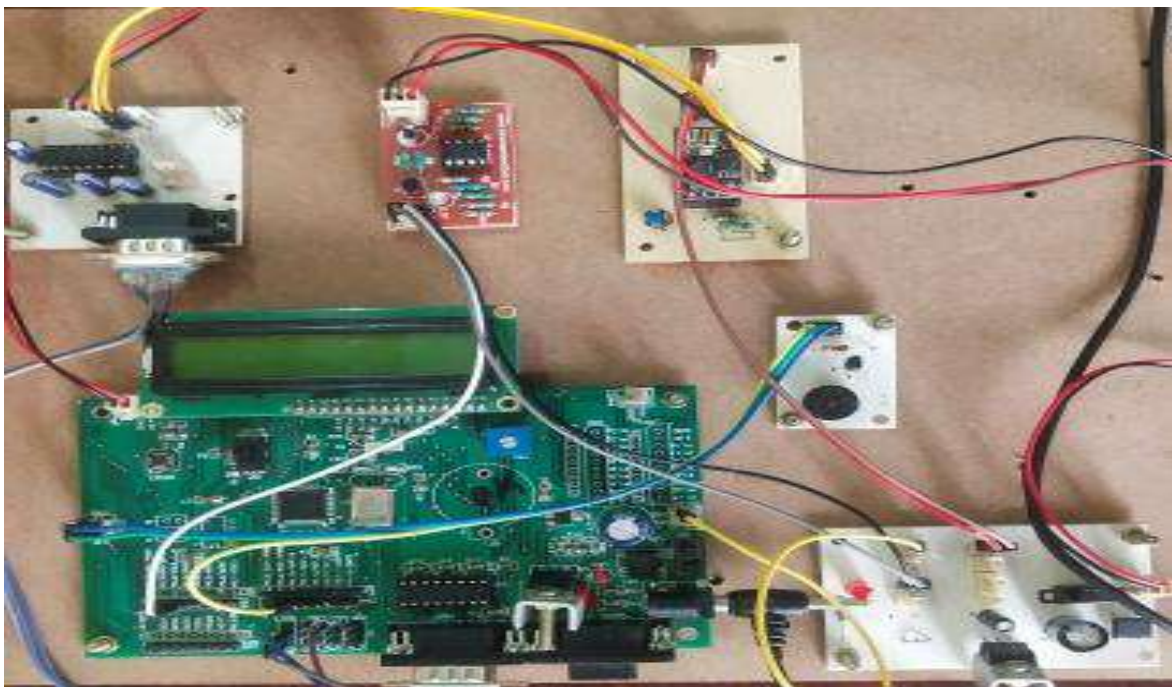
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Ibrahimpatnam, R. R. Dt.-501 56
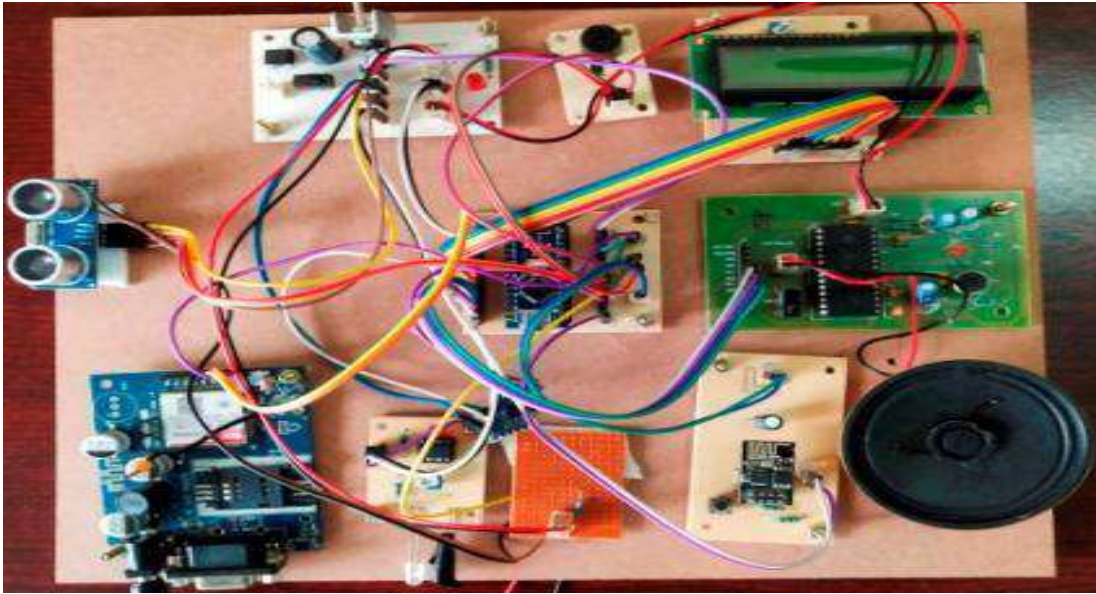
2. ARM Based IoT Health Monitoring System

Today Health-care Environment has advanced technological know-how and records based totally without a doubt mostly on Wireless-Sensing node Technology oriented. Patients are going through a complex state of affairs of sudden loss of life because of the precise cause of coronary heart problems and attack this is due to nonexistence of right clinical protection to patients at the favored time. This is for mainly monitoring the vintage age patients and informing scientific medical doctors and loved ones. So we are imparting a contemporary project to avoid such sudden loss of lifestyles charges through the usage of Patient Health Monitoring that makes use of sensor technology and makes use of internet to talk to the loved ones in case of issues .This device uses Temperature and heartbeat sensor for monitoring patients fitness. Both the sensors are related to the Adriano. To tune the affected person health micro-controller is in flip interfaced to a LCD display and Wi-Fi connection to deliver the information to the internet-server (wireless sensing node). In case of any abrupt modifications in affected character coronary heart-charge or frame temperature alert is sent about the affected person the usage of IOT. This tool moreover suggests patient temperature and heartbeat tracked stay data with timestamps over the Internetwork. Thus Patient fitness monitoring device based totally mostly on IOT makes use of internet to efficaciously display affected individual fitness and lets in the man or woman monitoring their cherished ones from artwork and saves lives.

3. Smart Helmet

A smart helmet is a type of protective headgear used by the rider which makes bike driving safer than before. The main purpose of this helmet is to provide safety for the rider. This can be implemented by using advanced features like alcohol detection, accident identification, location tracking, use as a hands free device, fall detection. This makes it not only a smart helmet but also a feature of a smart bike. It is compulsory to wear the helmet, without which the ignition switch cannot turn ON. An RF Module can be used as wireless link for communication between transmitter and receiver. If the rider is drunk the ignition gets automatically locked, and sends a message to the registered number with his current location. In case of an accident it will send a message through GSM along with location with the help of GPS module. The distinctive utility of project is fall detection; if the rider falls down from the bike it sends a message.
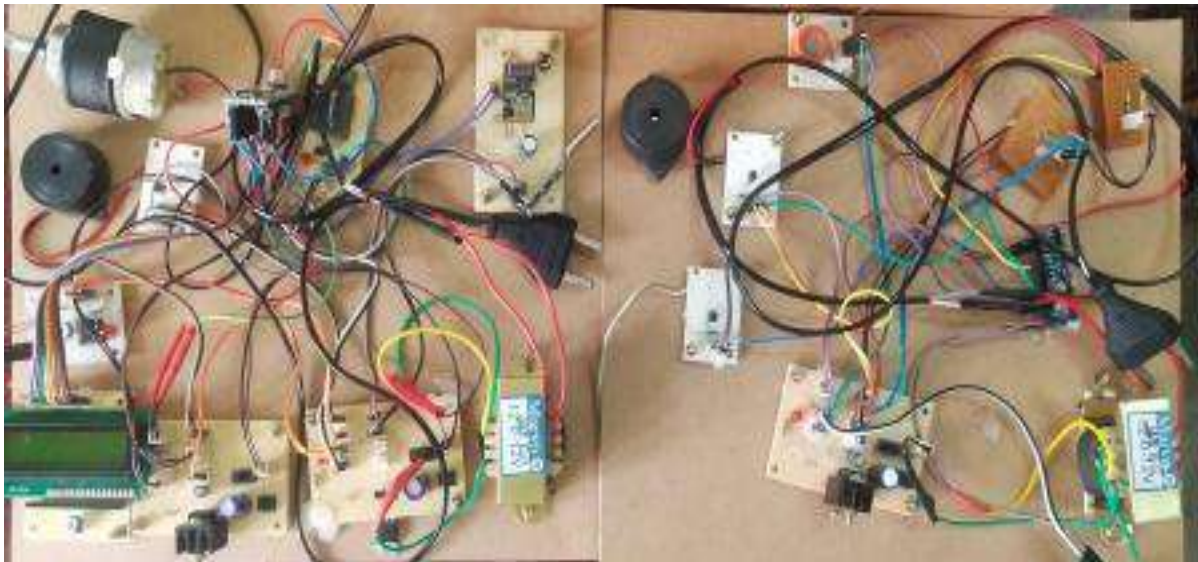
4. IOT Based Missile Tracking System

As far as military applications are concerned many modern technologies and equipment's have been designed to provide the security over the borders, sea faces, aircrafts, etc. After long research, it has been found that the ultrasonic radar based systems proves to be most useful, due to its highly accurate and optimized results. Also, the efforts are being made to avoid the actual presence of human intervention over such systems and to control them from anywhere around the world. Thus, this paper deals with a similar kind of system that tends to approach the today's need. Here, the robotic vehicle consists of a digital video camera used for live streaming of surveillance zone in control room, and then the ultrasonic sensor and a shooting missile are all built over a single bot. This not only helps to enter an area involving high risk but also to visualize the area and there by shoot whatever object user wants to. When the object enters the surveillance zone, then the robotic vehicle and hence the missile is adjusted via an android application in such a way that it targets the object. As it is an IOT based system, it can be controlled from anywhere, and beside this it allows us to take quick and immediate actions, without actually reaching and controlling the bot.

5. IOT Based Low end Automotive Drive Recorder System

The main function of the system is to provide vehicle security by providing a safety case to the vehicle. It will continuously monitor the data regarding vehicle and store it in the Raspberry pi. In this the usage of sensors such as alcoholic sensor, ultrasonic sensor, piezo sensor, and fire sensor and so on is done. These data's are fed in to Raspberry pi for further processing. As the vehicle starts the safety case will be in active mode. Thus when ever their occurs any kind of accidents takes place, at that moment itself the microcontroller trigger the Raspberry pi and a clear cut picture will be recorded and sent to the destination for rescue operation to carried out. These data's are sent to server with the help of Raspberry pi, which is single credit card sized minicomputer with the help of cloud computing. We can store the data in the server, so that we can access the data whenever it is necessary. These can be viewed from the web page. In case of network failure, these data's will be sent to the authorized android application in the form of twillio message.
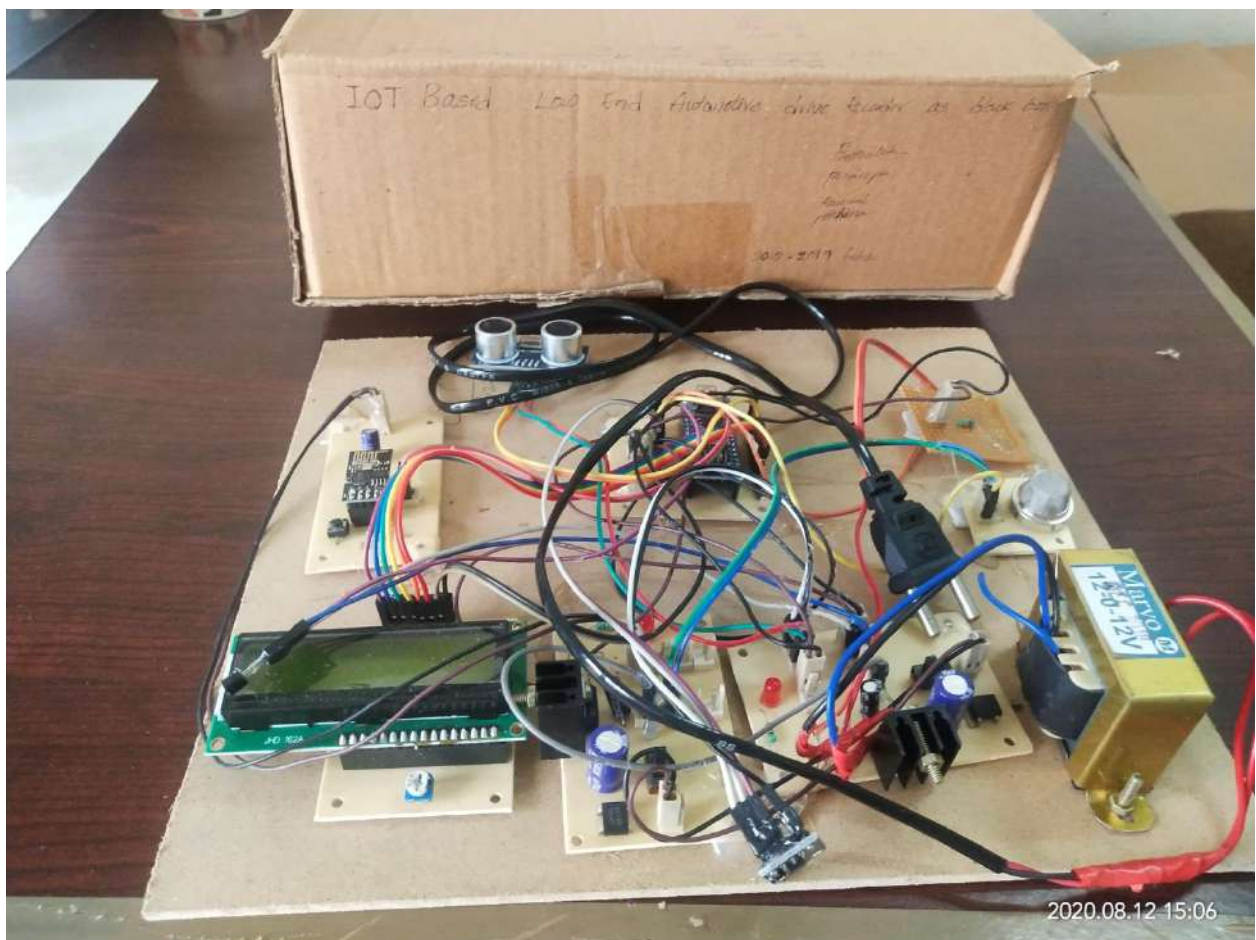
Patents published by faculty:

1. A patent on "Integrated English Language Instructions through Virtual Reality Technology for College Students" by K.Sony Glory, Associate Professor / Department of English, Scient Institute of Technology.

2. A patent on "Computational Analysis of the Consistency for the Navier-Stokes Equation and the Formation of a Uniform Velocity Profile in a Channel" by B.Ramadevi, Assistant Professor, Department of Mathematics, Scient Institute of Technology.

3. A patent on "Underground Cable Fault Distance Display System over the Internet" by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.

4. A patent on "SMS DRIVEN AUTOMATIC WIRELESS NOTICE BOARD" by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.

5. A patent on "ENERGY MANAGEMENT SYSTEM ARCHITECTURE FOR SMART GRID TECHNOLOGY" by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.

6. A patent on "OT BASED ELECTRIC VEHICLES MONITORING SYSTEM IN SMART CITIES" by Dr Y.V.Balarama Krishna Rai, Associate Professor, Department of EEE, Scient Institute of Technology.

7. A patent on "A SYSTEM FOR MEDIATING EFFECT OF FINANCIAL MANAGEMENT IN PROMOTING SUSTAINABLE BUSINESS PRACTICES & DEVELOPMENT" by G. Maruthy Raju, Assistant Professor, Department of Mathematics, Scient Institute of Technology.

Patents Proofs:

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(12) PATENT APPLICATION PUBLICATION

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(22) Date of filing of Application :28/10/2022

(21) Application No.202241061577 A

(43) Publication Date : 18/11/2022

(54) Title of the invention : Integrated English Language Instructions through Virtual Reality Technology for College Students

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(86) International Application No :PCT//
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    Filing Date :NA

(62) Divisional to Application Number :NA
    Filing Date :NA

(57) Abstract :
Abstract The field of linguistics has come a long way and with it the understanding that grammatical knowledge is essential to effective communication. Grammar instruction is not only essential in the classroom but also the primary means through which students can acquire the communicative competence that forms the goal of language instruction. This article focuses mostly on the use of AI and ML-based machine learning in the immersive context teaching technique of college-level English using virtual reality technology. The target is to see an increase in proficiency in the English language among the student body. In a university's comparative teaching experiment between two first-year classrooms, one uses virtual reality (VR) technology to create an immersive virtual context from a constructivist perspective, while the other uses more conventional multimedia tools and a more traditional approach. Rather than actively participating in class discussions and exchanging ideas with their peers, pupils are immersed in an Indian-speaking classroom environment for most of the day. Overall, the English proficiency was 2.8% greater than the control group. This shows that a constructivist approach to teaching English in an immersive virtual reality (VR) setting at a college works well.

No. of Pages : 13 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/10/2022

(21) Application No.202241058907 A

(43) Publication Date : 21/10/2022

(54) Title of the invention : Computational Analysis of the Consistency for the Navier-Stokes Equation and the Formation of a Uniform Velocity Profile in a Channel

(51) International classification :G06F0111100000, G06F0030230000, G06F0017130000, G06F0119080000, G06F0030332300	(71)**Name of Applicant :**
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(86) International Application No Filing Date	:PCT// :01/01/1900
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(62) Divisional to Application Number Filing Date	:NA :NA

(57) Abstract :

Abstract The boundary solution of a partial differential equation is said to be periodic if it is spatially smooth, satisfies the continuity equation, and therefore is congruent with the incompressible flow. The initial velocity field in the Navier-Stokes equation must be convergent. Although it is commonly believed that if an initial condition satisfies a boundary condition, then the two conditions are congruent, this is not the case. The Navier-Stokes equation's entire compatibility requirement may not be met for such an environment. The solution is irregular at the outset if the requirement has not been met. Although fluid dynamics research as a whole is aware of the problem, it has only recently received widespread attention. In this research, we provide a workable computation method for determining if the two systems are compatible. In addition, a periodical channel flow is also described that fails the seamless initial condition with no spatially smooth approach at the onset of the stream. The analysis and computations were carried out in a rational framework. In the absolute lack of wall-normal velocity, the findings for just a channel configuration demonstrate that the constraint is always satisfied, and the issue has a periodic solution. The condition is often not achieved if the wall-normal acceleration of an object is non-zero, although counter-examples could be constructed using optimization techniques. To ensure proper beginning conditions for delicate time-dependent numerical simulations, the technique of generating such a field is helpful. The given approaches may help you figure out if the selected starting conditions apply or not.

No. of Pages : 15 No. of Claims : 4

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Application Details

APPLICATION NUMBER	202241030965
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DATE OF FILING	30/05/2022
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TITLE OF INVENTION	Underground Cable Fault Distance Display System over the Internet
FIELD OF INVENTION	PHYSICS
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PUBLICATION DATE (U/S 11A)	03/06/2022

Application Status

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Application Details

APPLICATION NUMBER	202221031829
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TITLE OF INVENTION	SMS DRIVEN AUTOMATIC WIRELESS NOTICE BOARD
FIELD OF INVENTION	METALLURGY
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Department of Industrial Policy & Promotion,
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Application Details

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TITLE OF INVENTION	IOT BASED ELECTRIC VEHICLES MONITORING SYSTEM IN SMART CITIES
FIELD OF INVENTION	ELECTRICAL
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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211036623 A

(19) INDIA

(22) Date of filing of Application :26/06/2022

(43) Publication Date : 08/07/2022

(54) Title of the invention : A SYSTEM FOR MEDIATING EFFECT OF FINANCIAL MANAGEMENT IN PROMOTING SUSTAINABLE BUSINESS PRACTICES & DEVELOPMENT

(51) International classification	:G06Q0010060000, G06Q0040000000, G06Q0040020000, G06Q0040060000, G06Q0050180000
(86) International Application No	:NA
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(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
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(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
The present invention provides some insight into the sustainability aspects through a review of sustainable and financial management and how the two subjects are related. While sustainability finance is a perceived product of the integration of sustainability aspects in finance, the connection ought to be explained and verified to reasonably conclude the most appropriate and actual level of connection in terms of the underlying factors. The study makes case examples from the tourism industry at large and more specifically, Sweden. While financial management is highly relevant in the success of going concern entities, there is more insistence on ecological, social, and governance (ESG) from all stakeholders globally. This aspect has made it quite important for companies and institutions whether private or public to institute ESG practices and report on them with the same enthusiasm, accuracy, and comprehensiveness used in the preparation of the annual report produced by these firms.

No. of Pages : 25 No. of Claims : 5