

SKCET



Buzz

**20th – 26th November,
2021**

e – Academia Special Issue: 89

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Happy Reading



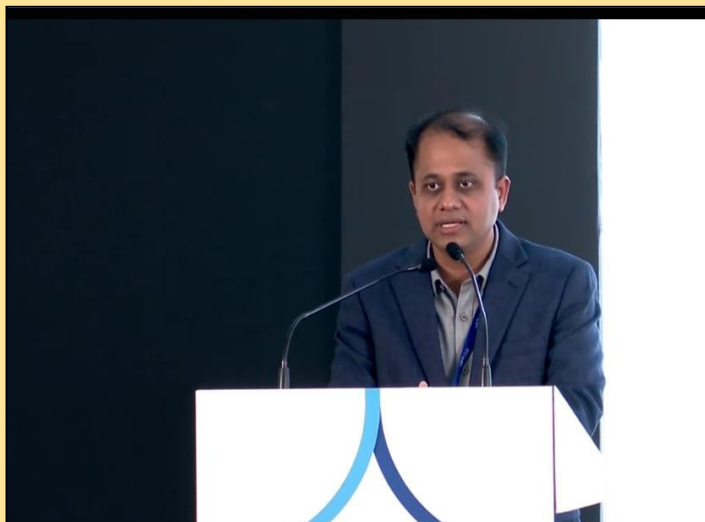
INSTITUTIONAL HIGHLIGHTS

SKCET | VIRTUSA HEAD START EVENT



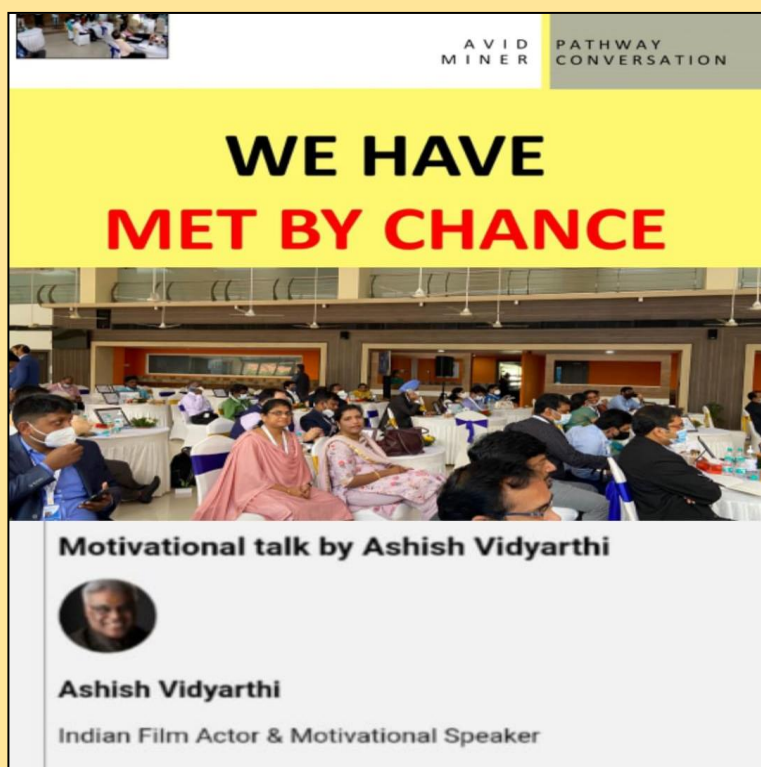
Annual Thanks Giving event for academicians across the country was organized by **Virtusa** at Chennai. **Principal Madam** was a special invitee for this remarkable event. The leadership team of Virtusa highly appreciated and honored our **Principal Madam** for the stellar effort of SKCET team in running Full Stack Java CoE and 5 years integrated M.Tech programme powered by **Virtusa**.

SKCET | VIRTUSA HEAD START EVENT



Special Talk by **Mr. Sundararajan Narayanan**, Chief People Officer, Virtusa, highlighting the challenges of the post Covid IT hiring market and the magnificent growth of all IT companies in last 2 years inspite of Covid & lock down.

Motivational Talk delivered by **Mr. Ashish Vidyarthi**, Indian Film Actor and Motivational Speaker



SKCET | VIRTUSA HEAD START EVENT



PANEL DISCUSSION

Title: Preparing for future of work post Covid crisis

Highlights:

- The need of academia to collaborate more in the latest technologies like Data science, AI-ML, Cyber security to meet future demands of industry.
- Cultivating the habit of Problem solving in Java from 2nd year onwards to meet industry standards.
- Enabling faculty to participate in industry certified programs in niche technologies.
- Encouraging students to participate in hackathons - to inculcate the habit of learning by doing.

SKCET

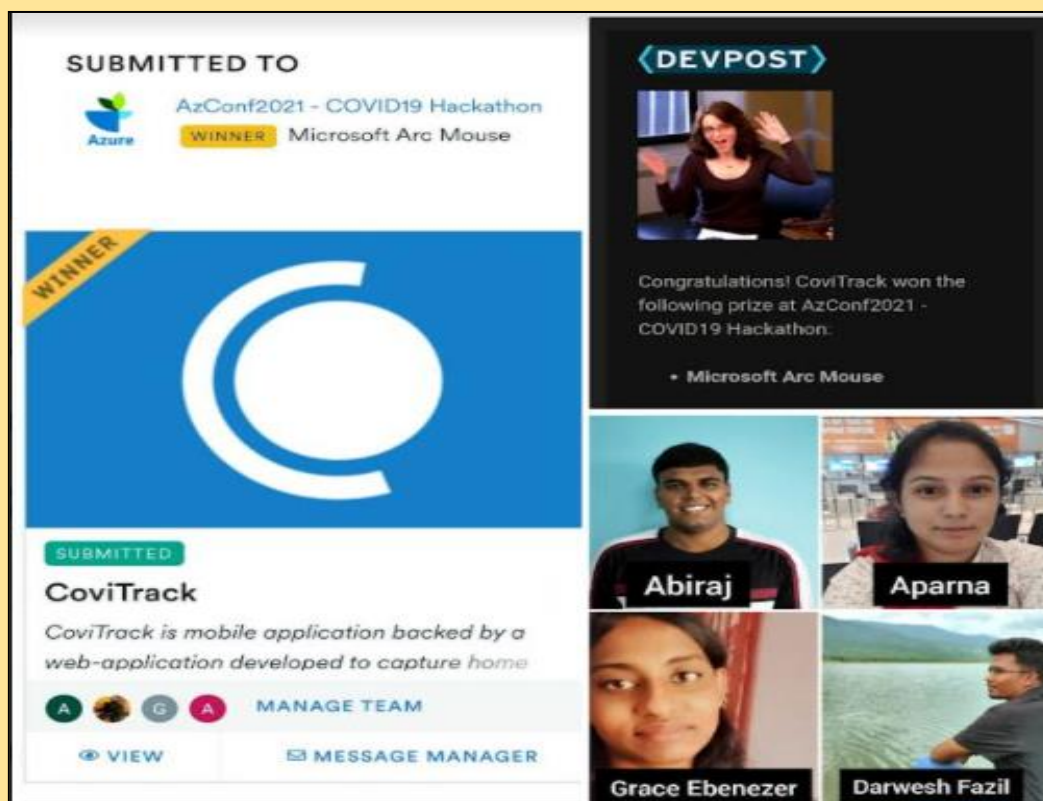


Buzz



HACKATHON ACCOLADES

CSE | MICROSOFT: AZCONF2021 - COVID19 HACKATHON



Student team AGADA from Third year CSE has won **Third Prize** in “Microsoft: AzConf2021 - COVID19 Hackathon” organized by Microsoft, sponsored by EY and Elastic. The team has been rewarded with Microsoft Surface Arc mouse and Swag Packs.

Project Title: Covitrack

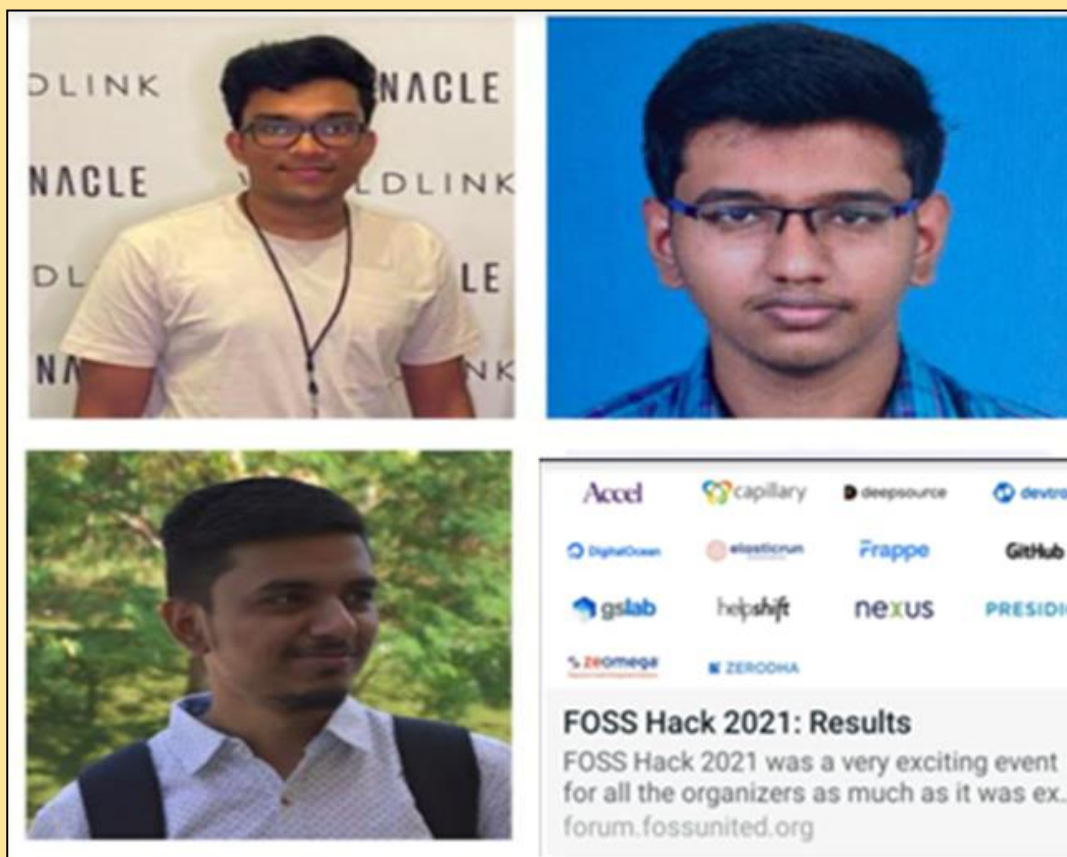
Team Members:

- Abiraj R
- Aparna K
- Darwesh Fazil A
- Grace Ebenezer R

Mentor:

Ms. Rohini M - AP/CSE

CSE & M.TECH CSE | FOSS HACKATHON 2021



Student team from CSE and M.Tech CSE has bagged cash prize worth Rupees 25,000/- and has also gained an opportunity for seed funding up to 1,00,000 at “FOSS Hack 2021” organized by FOSS United Foundation.

Project Title: Certificate Ninja

Link: <https://forum.fossunited.org/t/foss-hack-2021-results/957>

Team Members:

- Adithya Menon S - IV CSE
- Kumaraguru T - III CSE
- Bhuvanesh T G - II M.Tech CSE

Mentor:

Ms. A.Priya.AP/CSE



STUDENT CERTIFICATIONS

EEE | NPTEL CERTIFICATION

T R Guruprasadh, PG Student, EEE Department has completed 12 Weeks NPTEL Course on “**Electric Vehicles and Renewable Energy**” and has secured **Elite+Gold** Certificate (one among the 5% of topper) during July to October 2021.



EEE | NPTEL CERTIFICATION



K Sriram, student of **Third** year EEE has successfully completed 12 Weeks NPTEL Course on “**Introduction to Internet of Things**” and has secured **Elite** certificate during July to October 2021.

AI & DS | 25 ON POWER SYSTEMS - QUIZ



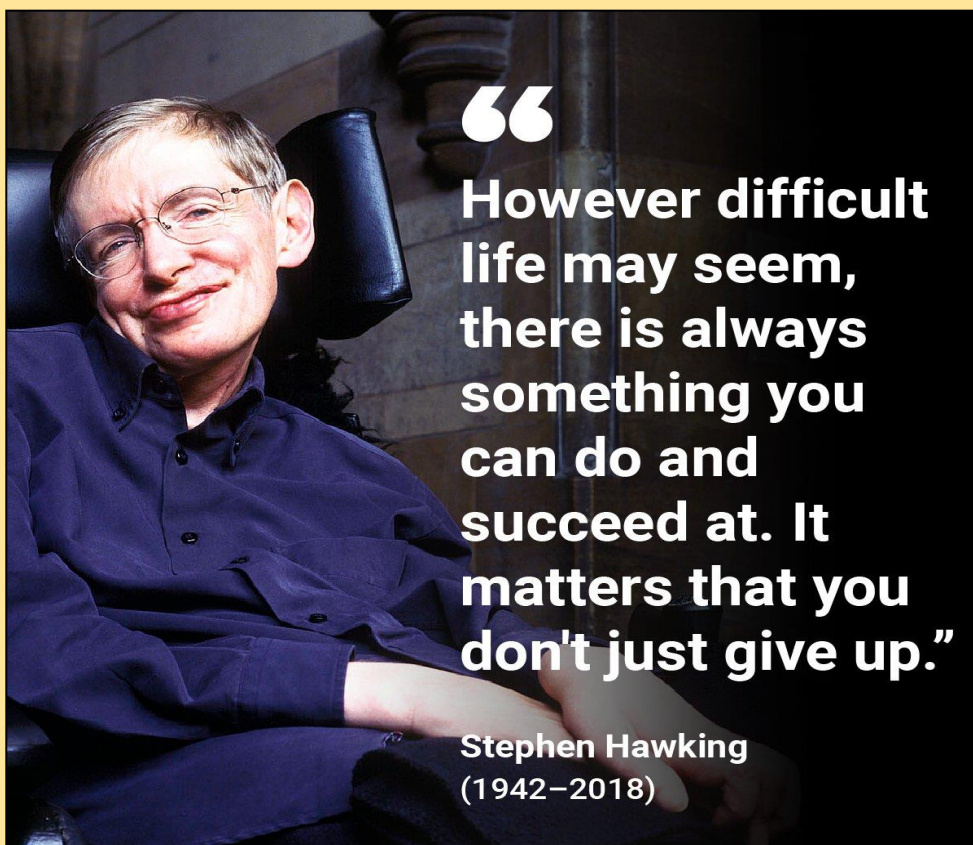
Santhiya A, Saparna K and Sharvesh P students of Second year Artificial Intelligence and Data Science have participated in the Online Quiz series - 25 on Power Systems organized by K.Ramakrishnan College of Engineering on 19.11.2021.

MECH | COURSERA CERTIFICATION

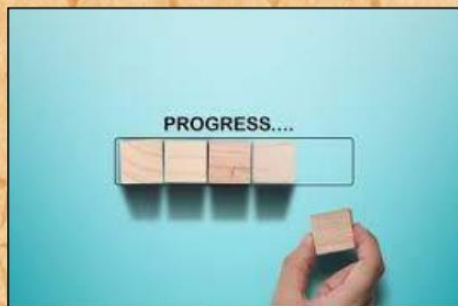


Shrijith R, student of Final year Mechanical Engineering has successfully completed a course on 'Entrepreneurship 1: Developing the opportunity' authorized by University of Pennsylvania and offered through Coursera.

LEGENDARY INSIGHTS

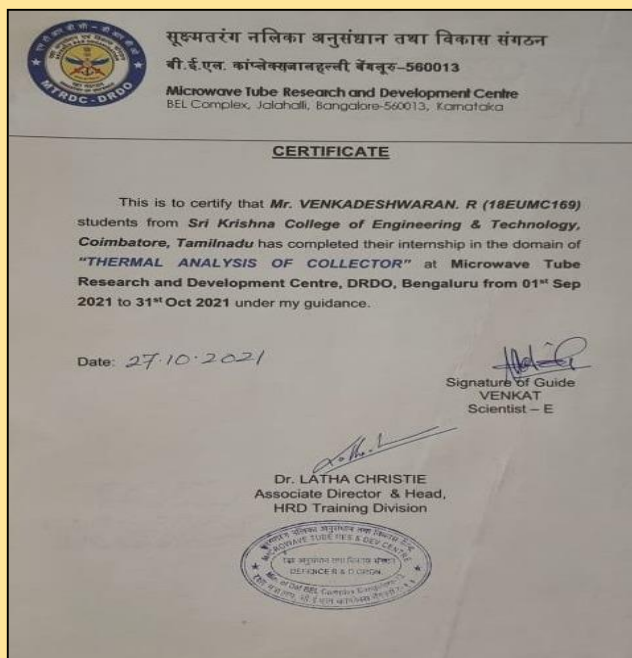


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STUDENT PROGRESSION

MECH | INTERNSHIP @ DRDO



Venkadeshwaran R, student of Final year **Mechanical Engineering** has successfully completed his internship in the domain of '**Thermal analysis of collector**' at Microwave Tube Research and Development Centre, **DRDO**, Bengaluru. The duration of the internship was two months and the student was appreciated for his dedicated work during the internship.

MECH | INTERNSHIP UNDER DRISHTI - AN INITIATIVE BY MINISTRY OF HEAVY INDUSTRIES

Saranya R, student of Final year **Mechanical Engineering** has successfully completed her internship in the area of '**Surface Engineering and Laser Processing**' under Drishti - an initiative by Ministry of Heavy Industries. The duration of the internship was two months and the student was appreciated for her sincere and hardworking attitude during the internship.



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EVENTS

SKCET - MCT | MOU SIGNING & FELICITATION CEREMONY OF HACKATHON



Department of Mechatronics Engineering organized “MOU Signing & Felicitation of Hackathon on AI for Social Good” on 22.11.2021. MoU was signed between SKCET and DeepVisionTech.AI Pvt.Ltd, Bengaluru. Mr.Jayasudhan Munsamy, Founder & CEO, DeepVisionTech.AI Pvt.Ltd was the Resource Person. Winners and Mentors of Hackathon were appreciated and honored with prizes.

SKCET - MECH | MOU SIGNING CEREMONY



Memorandum of Understanding was signed between the Department of **Mechanical Engineering** of SKCET and **All India Council for Robotics and Automation (AICRA)** on 23.11.2021. **Principal Madam** presided over the ceremony and delivered the presidential address. **Dr. P. Ashoka Varthanan**, HoD, **Mechanical Engineering** welcomed the gathering. **Mr. Rajkumar Sharma**, President - AICRA and **Ms. Alka Sachdeva**, Secretary - AICRA joined the ceremony from New Delhi virtually. A three member team headed by **Mr. Ganesh**, South India Head, AICRA signed the MoU.

MoU Outcomes:

- Establishing Centre of Excellence in Robotics and Automation
- Training students and faculty in upcoming technologies
- Supporting projects and internships
- Promoting start-up culture among students and providing Incubation support.

MCT | ASSOCIATION INAUGURATION & GUEST LECTURE ON ADVANCEMENTS IN ROBOTICS & ROBOTICS CAREERS

SRI KRISHNA
COLLEGE OF ENGINEERING AND TECHNOLOGY
An Autonomous Institution, Accredited by NAAC with 'A' Grade

Department of Mechatronics Engineering

ASSOCIATION INAUGURATION

We cordially invite you all for a
Guest lecture on the topic of
**ADVANCEMENTS IN ROBOTICS AND
ROBOTICS CAREERS**

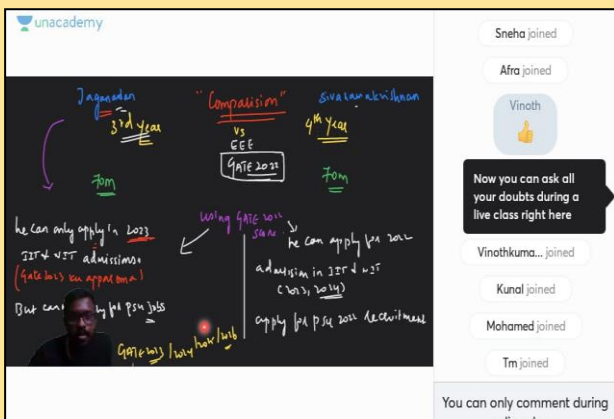
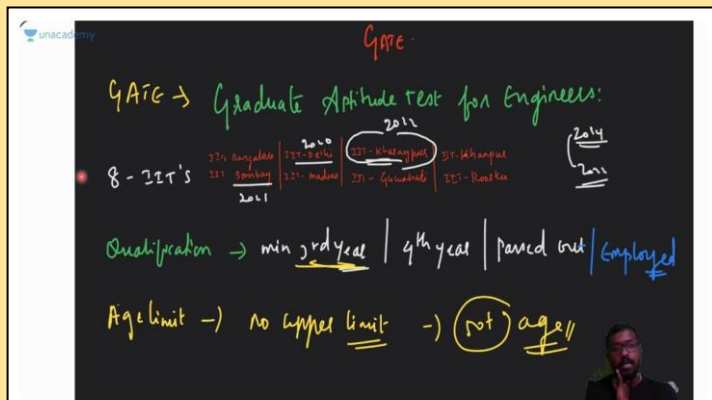
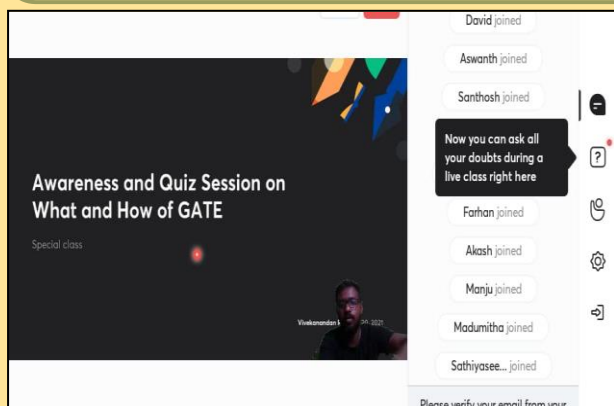
Chief Guest
Mr. Sri Sabari Nathan,
Chief Product Officer,
Maxbyte Technologies,
Coimbatore.

2:30 PM - 4:00 PM
BS - 03
18-11-2021



Department of Mechatronics Engineering organized Association Inauguration & Guest Lecture on “Advancements in Robotics & Robotics careers”. Mr. Sri Sabari Nathan, Chief Product Officer, Maxbyte Technologies, Coimbatore was the Resource Person. Importance of Mechatronics in Industries, Automation in all areas, Robotics in upcoming era, Commercial Quadrupedal Robots and Smart Dust Robots were the session highlights.

S&H & EEE | WEBINAR ON WHAT AND HOW OF GATE



Department of S&H & EEE in association with Unacademy organized a Webinar on “What and How of Gate” for the First and Third year students on 20.11.2021. Mr.Vivekanandan, Trainer, Unacademy was the Resource Person. The objective of this session was to encourage the students to understand the importance of GATE competitive exam.

Session Highlights:

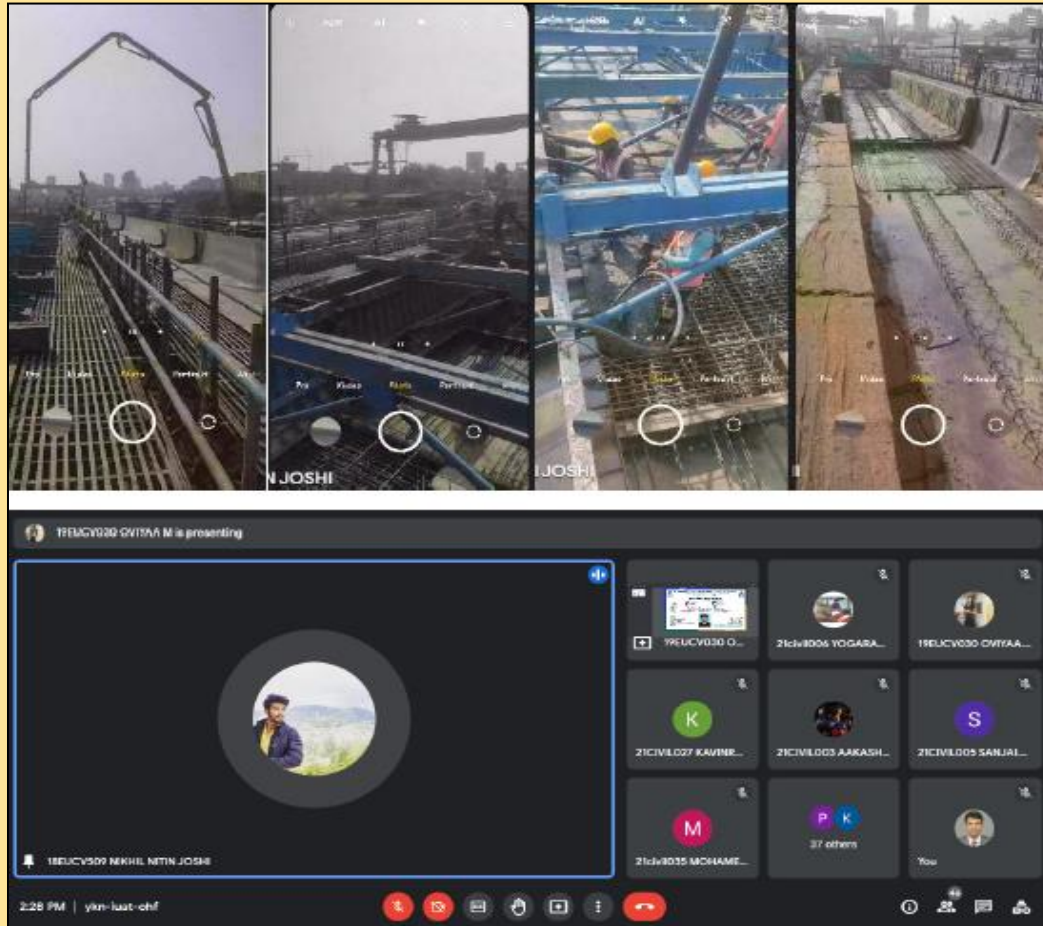
- Career through GATE (Job/ Higher Studies)
- GATE exam process
- GATE exam pattern

SOM | GUEST LECTURE ON DYNAMICS OF INTERNATIONAL MONEY MARKET

The screenshot shows a Zoom meeting interface. The top left displays the logo and name of Sri Krishna College of Engineering and Technology, along with accreditation details. The School of Management is inviting students to a guest lecture on the Dynamics of International Money Market, featuring Mr. Thiyagaraj Rangasamy as the resource person. The lecture is scheduled for 19th November 2021 from 11:30 am to 12:30 pm. The main part of the image shows a presentation slide with a flowchart illustrating the relationship between Interest Rate Parity (IRP), Fisher Effect, International Fisher Effect (IFE), Forward Rate Discount/Premium, Inflation Rate Differential, and Exchange Rate Expectations. Below the flowchart, text explains that IRP theory focuses on why forward rates differ from spot rates, while PPP theory focuses on how a currency's spot rate changes over time based on inflation differentials.

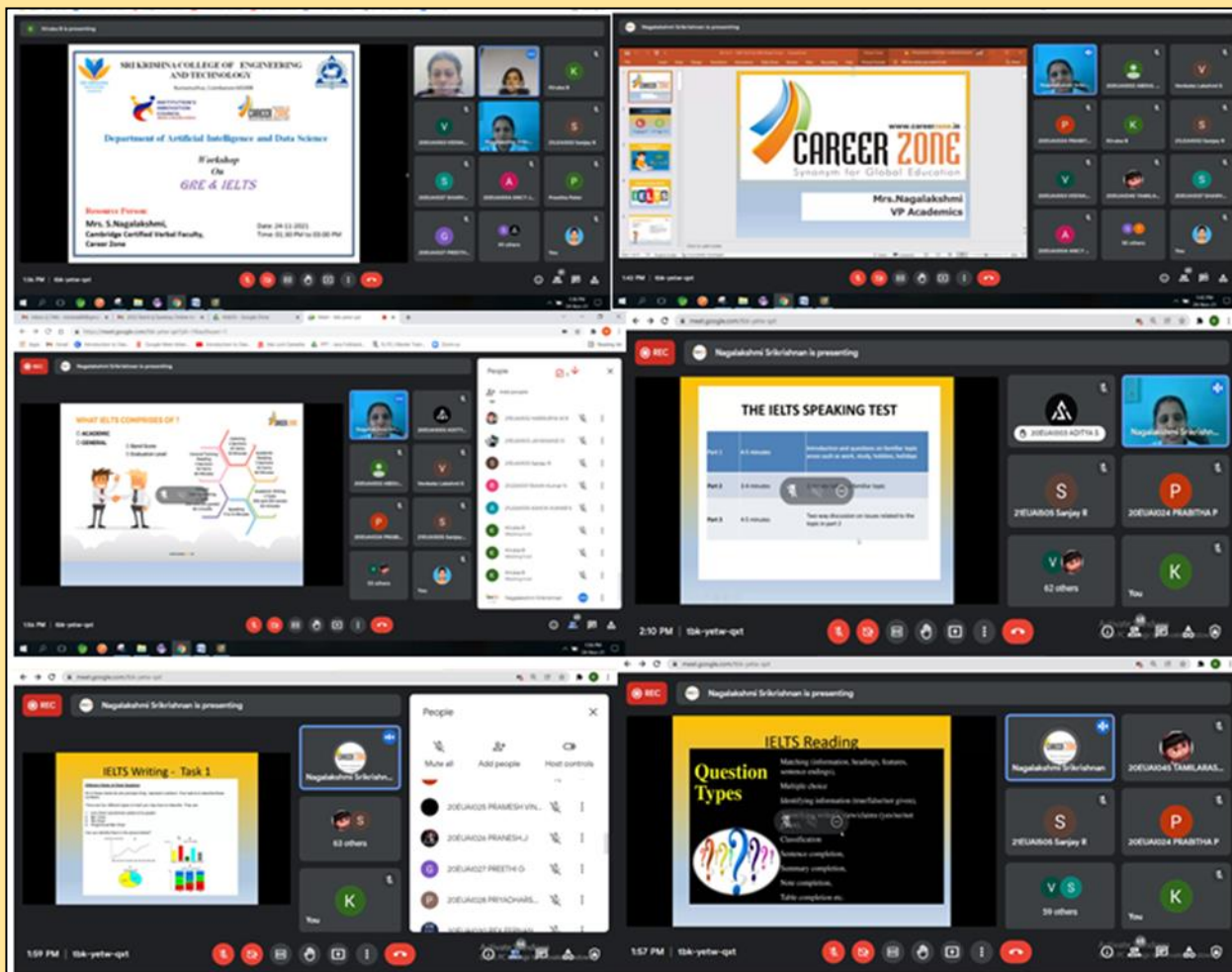
School of Management organized a Guest Lecture on “Dynamics of International Money Market” on 19.11.2021 for the Second year MBA students. Mr.Thiyagaraj Rangasamy, Founder of Finzine Management Consulting, Coimbatore was the Resource Person. The functioning of International Money Market, Depository receipts, Parity theories like Purchasing power parity, Interest parity and Fischer effect were the session highlights.

CIVIL | WEBINAR ON CONCEPTIONAL GOALS OF CIVIL ENGINEERING



Higher Education Cell of Civil Engineering department organized a webinar on “**Conceptional Goals of Civil Engineering**” on 11th November 2021 through Google meet. **Er.Nikhil Nitin Joshi**, Junior Engineer, J.Kumar Infrastructure Limited, Mumbai was the Resource Person. The Speaker enlightened the students on the opportunities for Civil Engineers in metro projects and other sectors.

AI&DS | WORKSHOP ON GRE & IELTS



Department of **Artificial Intelligence and Data Science** organized a workshop for the **Second** year students entitled **"GRE & IELTS"** on 24.11.2021 via Google meet. The Resource person for the Workshop was **Mrs.Nagalakshmi**, Cambridge Certified Verbal Faculty, Career Zone. The pointers of discussion were: Introduction about GRE & IELTS, Reading and Writing formats, Test Structure, Exam Pattern, Nature of Exam, Band Score, Criteria, Types of GRE, Question types, Test Preparation and Cracking Tips.

SKCET



RESEARCH AND DEVELOPMENT

R&D | PATENT PUBLICATION | MCT

(12) PATENT APPLICATION PUBLICATION	(21) Application No:202141049961 A
(19) INDIA	
(22) Date of filing of Application :01/11/2021	(43) Publication Date : 19/11/2021
(54) Title of the invention : QR CODE AND COIN-BASED AUTOMATIC FACE MASK VENDING MACHINE	
(51) International classification	A41D0013110000, A62B0023020000, A61K0008260000, A01N0025340000, A62B0018080000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71) Name of Applicant :	1)Dr.M.LYDIA Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
(72) Name of Inventor :	2)Dr.D.PRITIMA Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	3)INDIRAPRIYADHARSHINI Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	4)KANAKLS Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	5)ANANTHLK Address of Applicant :ENGINEERING,SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	6)BHUVANESWARLM Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	7)NITHYAPRIYAS Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
	8)PRIYADHARSHINLR Address of Applicant :SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY,COIMBATORE
(57) Abstract :	Masks have become the most commercial products of this period. On the one hand, the rapidly rising spread of the pandemic caused by Covid-19 has changed lifestyles. On the other hand, working people and people in essential services risk their lives to protect the country's economic growth and achieve their income to run their routine lives. Wearing masks to prevent this deadly virus becomes mandatory these days. Therefore, masks are essential to protect ourselves from the pandemic, at least not as a carrier of the virus which may affect the weak immune people. Keeping a mask with us creates practical difficulty, which can be eased with the availability of face mask vending machines in public places. The proposed machine vends the face mask preloaded based on the payment done through QR code or coin. This machine makes face masks accessible to all people in all public and crowded places with the help of technology and modern science.
No. of Pages : 7	No. of Claims : 9

Dr.M.Lydia, HOD, Dr.D.Pritima, Mrs.J.IndiraPriyadharshini, Mrs.S.Kannaki, Mrs.K.Ananthi, Mrs.M.Bhuvanewari, Mrs.S.Nithya Priya, and Mrs.R.Priyadharshini, faculty members, MCT have published a patent entitled "QR code and coin based automatic face mask vending machine", in Indian IPR dated 19.11.2021, with Application number: 202141049961A.

R&D | PATENT PUBLICATION | EEE

Patent titled "Self-Balancing of Electric Two-Wheeler Using Gyroscope" has been published by **Ms.G.Mahalakshmi, Ms.R.Geethamani,** Assistant Professors, **Dr.J.Karthika** Associate Professor, EEE Department in the IPR Journal identified with Appl.No: 202141051121 A on 19.11.2021.

(12) PATENT APPLICATION PUBLICATION	(21) Application No:202141051121 A
(19) INDIA	
(22) Date of filing of Application :08/11/2021	(43) Publication Date : 19/11/2021
(54) Title of the invention : SELF-BALANCING OF ELECTRIC TWO-WHEELER USING GYROSCOPE	
(51) International classification	B62K001300000, G06F00330000, G05D00080000, A41B001000000, F03G00300000
(86) International Application No	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
(62) Divisional to Application Number	:NA
(71) Name of Applicant :	1)RAJESH S Address of Applicant No - 67, Perambalur Street, NGO Nagar, Ponneri - 601104
	2)Mr. S. Mathakumar Name of Applicant :NA Address of Applicant :NA (72) Name of Inventor : 1)Mr. S. Mathakumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	2)Mr. TIDARAJU R PRASAD VARMA Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Saji Ramasubramanian Raja Engineering College, Bhimavaram, Andhra Pradesh - 516204.
	3)Mr. A. TAMIL SELVAN Address of Applicant :Assistant Professor, Department of Automobile Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode - 638401.
	4)Mr. G. Mahalingam Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	5)Mr. R. Govindaraj Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	6)Dr. J. Karthika Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	7)Mr. S. Rajesh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K Engineering College, Karaikal - 601306.
	8)Mr. S. Shaban Thomas Address of Applicant :UG Scholar, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	9)Mr. T. A. Pravin Sankar Address of Applicant :UG Scholar, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	10)Mr. S. Sankar Address of Applicant :UG Scholar, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
	11)Mr. S. Poo Arvin Address of Applicant :UG Scholar, Department of Mechanical Engineering, Sri Krishna College of Engineering and Technology, Kuzhambalur, Coimbatore - 641108.
(57) Abstract :	The development of gyroscope design and simulation of a constructed self-balancing vehicle system is the focus of this invention. The electric powered vehicle is used for this work. The model is designed with the help of Solid works computer modeling software, once the design calculations are perfect in all aspects, the concept model has become a two-wheeler vehicle under which spinning discs are hinged as a gyroscope to generate counter balance force (gyroscope effect) once the gyroscope effect is equal to the vehicle loses equilibrium on either side. The engine, fan, rollers, itself. This invention also provides a brief description of the model vehicle built with an Arduino Uno as a microcontroller. Whenever there is an external force is applied to the device, the force sensors mounted in the vehicle detect the force and produce a force of equal magnitude but in the reverse direction caused by the presence of two gyroscopes used throughout the vehicle, so the vehicle does not lose its balance even when the external force is applied to any of it.
No. of Pages : 7	No. of Claims : 3

R&D | PATENT PUBLICATION | MCT

Mr.S.Madhankumar, Mrs.K.Ananthi, Mrs.S.Kannaki, Mrs.M.Bhuvaneshwari, faculty members of MCT have published a patent entitled “Autonomous Mobile Robot for Material Handling using Photoelectric Sensors”, in Indian IPR dated 05.11.2021, with Application number: 202141048422A.

The Patent Office Journal No. 47/2021 Dated 19/11/2021		54785
(12) PATENT APPLICATION PUBLICATION	(21) Application No.202141049970 A	
(19) INDIA		
(22) Date of filing of Application :01/11/2021	(43) Publication Date : 19/11/2021	
(54) Title of the invention : AUTONOMOUS MOBILE ROBOT FOR MATERIAL HANDLING USING PHOTOELECTRIC SENSORS		
(71) Name of Applicant : Dhananithi Kalyanmorthy Address of Applicant :2/580B, Sri Balaji Garden, Premier Nagar, Kotturuthi, Coimbatore - 641008. D.Mr. S. Madhankumar Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : D.Mr. S. Madhankumar Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. D.Mrs. Ananthi Kalyanmorthy Address of Applicant :Assistant Professor, Department of Electronics and Telecommunication, Dr.J.J.Megham College of Engineering, Agartal, Jayasingar - 416101. D.Mr. Ananthi Kalyanmorthy Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. D.Mrs. S. Kannaki Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. D.Mrs. M. Bhuvaneshwari Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008.		
(51) International Classification D011002100000, B013000300000, D0110013320000		
(60) International Application No. Filing Date	NA NA	
(87) International Publication No.	NA	
(61) Patent of Addition to Application Number Filing Date	NA NA	
(62) Divisional to Application Number Filing Date	NA NA	
(57) Abstract : In the majority of the textile mills manual workers are used for locomotion from the process of Carding to Autocomer, the cotton is transported manually using trays and bins. To reduce the manual workers for transporting the processed cotton, a mobile robot is implemented in the textile mill. The main idea of this proposed work is to reduce manual human effort for transporting processed cotton between different process stages. The main objective of the project is to design and model an autonomous mobile robot for material handling in the textile industry. This reduces the workers for manually transporting the processed cotton to the next process stage. These mobile robots are also used for workhouse goods movement. The workers who are manually transporting the processed cotton can be utilized in other fields. The mobile robot will be training by following the path of palletized stages. Hence the production and efficiency of the mill increase significantly. Also, the workers are no longer required for transporting the processed cotton. No. of Pages : 9 No. of Claims : 3		
The Patent Office Journal No. 47/2021 Dated 19/11/2021		54786

R&D | PATENT PUBLICATION | MCT

Mr.S.Madhankumar, Mrs.K.Ananthi, Mrs.S.Nithya Priya, faculty members of MCT along with **S.Ashwin, W.Joel Anton, Anek Anil, Final year students of MCT** have published a patent entitled “Internet of Things based Invention Intelligent Irrigation System Monitoring and Controlling” in Indian IPR dated on 12.11.2021, with Application number: 20214104 9831A.

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202141049831 A
(19) INDIA		
(22) Date of filing of Application :30/10/2021		(43) Publication Date : 12/11/2021
(54) Title of the invention : INTERNET OF THINGS BASED INVENTION FOR INTELLIGENT IRRIGATION SYSTEM MONITORING AND CONTROLLING		
(71) Name of Applicant : 1)S. Madhankumar Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. 2)Ananthi Kalyanmorthy Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)S. Madhankumar Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. 2)K. Ananthi Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. 3)MISHANT SHANDILYA Address of Applicant :Chartered Engineer (India), The Institution of Engineers (India), G-602, Marvel Ideal Spacio, Jagdamba Bhawan Marg, Udaipur Road, Pune-411060 4)P. Ramesh Address of Applicant :Assistant Professor, Department of Mechanical Engineering, R.M.K. Engineering College, Kavayarpeta - 601206 5)S. Nithya Priya Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008. 6)S. Ashwin Address of Applicant :UG Scholar, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008 7)W. Joel Anton Address of Applicant :UG Scholar, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008 8)Anek Anil Address of Applicant :UG Scholar, Department of Mechatronics Engineering, Sri Krishna College of Engineering and Technology, Kotturuthi, Coimbatore - 641008		
(51) International classification	:A01G0025160000, G06G0101006000, G06G0050020000, H04L0020080000, H04G0009000000	
(60) International Application No. Filing Date	NA NA	
(87) International Publication No.	NA	
(61) Patent of Addition to Application Number Filing Date	NA NA	
(62) Divisional to Application Number Filing Date	NA NA	
(57) Abstract : This advancement "Internet of Things based Invention for Intelligent Irrigation System Monitoring and Controlling" plays a key role in smart agriculture. The development will aid farmers by developing a smart irrigation source in terms of agriculture. It provides more significant aid in terms of less expenditure in the irrigation supply and the least amount of effort. Smart irrigation technology is a precise concept based on the fact that IoT sensors are suitable for providing information on their agriculture areas and automating water systems via the IoT. This invention includes sensors that evaluate heat, viscosity, acidity, and liquid level in agricultural fields. The IoT is supported by the integration of a large number of devices over the IoT. Each item is linked to the other by an intriguing identification, allowing information to be sent with no need for human-to-human connection. It enables the development of solutions for improved asset management. According to the concept of IoT, smart items embedded with sensors enable connection with the physical and legal worlds. Monitoring systems of the irrigation structure model reduce the need for human intervention and allow for remote monitoring and control using a smartphone. Cloud technology is an interesting solution for the massive amount of data generated by the wireless sensors' organization. This innovation presents and evaluates a cloud-based distant communication architecture for screening and controlling plenty of sensors and devices to analyze the plants' irrigation requirements. No. of Pages : 9 No. of Claims : 4		
The Patent Office Journal No. 46/2021 Dated 12/11/2021		53721

R&D | JOURNAL PUBLICATION | CIVIL

ICAPSM 2021 IOP Publishing
Journal of Physics: Conference Series 2070 (2021) 012169 doi:10.1088/1742-6596/2070/1/012169

Experimental Investigation on Grades of Cement in the Nominal and Design Concrete Mixes

D Maruthachalam¹, S C Boobalan² and M Kaarthik³

¹ Professor, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641008.
² Assistant Professor, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India 641008.
³ Assistant Professor, Coimbatore Institute of Technology, Coimbatore, Tamil Nadu, India 641014.
E-mail: dmaruthachalam@gmail.com

Abstract. In India, the experience in the use of concrete in housing is more than seven decades old. Concrete mix is a combination of cement, water and aggregates of sand and stone. The relative merits of using 33, 43 & 53 grades of cement in the nominal and design concrete mixes are studied, by testing to destruction hundreds of cubes, cylinders and prisms made using these three grades of cement, the concrete mix having been designed as per the relevant Indian Standard code of practice. The objective of this paper is to make awareness among researchers, engineers and the public about the latest scientific and technical developments in cement, and how to achieve economy in concrete. The foremost objective of concrete mix design is to hand-pick the optimum proportions of various ingredients of the concrete to satisfy the required properties in its fresh and hardened state. As per the investigation, if concrete mixes are designed for different grades adopting separately 33, 43, & 53 grades of cements, grade 53 gives the highest 28 days cube strength, whereas 33 grade cement gives the lowest value. The relative cost of using these three grades is also discussed in the paper.

Dr.D.Maruthachalam, Professor and Head, Department of Civil Engineering, along with **Mr.S.C. Boobalan**, Assistant Professor, Department of Civil Engineering has published a research article titled **"Experimental Investigation on Grades of Cement in the Nominal and Design Concrete Mixes"** in the Journal of Physics: Conference Series. It is a Scopus indexed journal.

R&D | PATENT PUBLICATION | MCT

Dr.D.Pritima, Associate Professor, MCT has published a patent titled **"A smart application for night vision patrolling robot using cloud based IoT with CNN"**, with the Application Number **202141043523** Published on **01.10.2021**.

Application Details	
APPLICATION NUMBER	202141043523
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/09/2021
APPLICANT NAME	1. Dr.B.Sakthivel, Madurai Institute of Engineering and Technology 2. Dr.K.Jayaram,Sengunthar Engineering College 3. Dr.KR.RAMELA, Ultra college of Engineering and Technology 4. Dr.K.N.Baluprithviraj, Kongu Engineering College 5. Mrs. Niraja Ravindra Jain,PDEA's College of Engineering 6. Dr.M.Jeyalakshmi,SSM Institute of Engineering and Technology 7. Dr.D.Pritima,Sri Krishna College of Engineering and Technology 8. Dr.R.Renugadevi,PSR Engineering College 9. Dr. P.SureshPandiarajan,PSR Engineering College 10. Dr.M.Usharani, Velammal Engineering College Chennai
TITLE OF INVENTION	A smart application for Night Vision Patrolling Robot using Cloud-based- IoT with CNN
FIELD OF INVENTION	BIOTECHNOLOGY
E-MAIL (As Per Record)	786sakthivel@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (I/S 11A)	01/10/2021

R&D | PAPER PUBLICATION | ECE

Biometrics based Smart and Secured Electronic Voting Machine

Publisher: IEEE [Cite This](#) [PDF](#)

R Senthil Ganesh ; B Anuradha ; S Karthikeyan ; P Vijayalakshmi ; M Ashok ; V Nagaraj [All Authors](#)

Abstract
The Electronic Voting Machine (EVM) is a basic electronic contraption that has been used to testify a polling form as opposed to surveying structure credentials and boxes that were previously worn in conformist popularity based organisations. The reason of a vote-based framework is shaped by critical accuracy in projecting a polling form or only equitable in races. All previous choices, whether status races or central races, required a balloter to project their main entrant by placing the squash against their name and then imploding the democratic structure thesis as indicated by a supported strategy and dropping them in ballot package. This is a long, drawn-out cycle that is particularly prone to blunders. The current circumstances continued till political race scene were replaced by electronic popularity based machine. Surveying structure paper, casting a ballot stations, venturing, etc are combined into a fundamental sachet called surveying structure unit of the electronic majority rule machine. Since bio-metric identifiers can't be easily lost, made, or mutual, they are viewed as more strong for singular affirmation than standard slip or data based methodologies. Henceforth, the electronic popularity based system should be additionally evolved subject to the current advances in bio-metric structure. This article analyzes absolute assessment about projecting a voting form devices, topic and relationship among the majority rule procedures and bio-metric EVM. We moreover propose astute and secure popularity based structure subject to cloud technique which prompts speedy reporting of results.

Document Sections
I. Introduction
II. Existing methods
III. Proposed Method
IV. RESULTS AND DISCUSSION
V. CONCLUSION

Authors
Published in: 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)

Figures
Date of Conference: 7-9 Oct. 2021
DOI: 10.1109/ICOSEC51865.2021.9591865

References
Date Added to IEEE Xplore: 12 November 2021
Publisher: IEEE

Keywords
► ISBN Information:
Conference Location: Trichy, India

Internet of Things based Smart Health Care System using LoRa

Publisher: IEEE [Cite This](#) [PDF](#)

Balaji V R ; Dinesh Kumar J R ; A. Arivarasan ; J. Karthik Raja ; P. Chidambaram [All Authors](#)

Abstract
The internet of things (IoT) is one of the recent technologies that attract a lot of attention in recent years. The web application would have connected devices by 2022 and many web applications would have been developed by 2022. In a wireless detector network, IoT will play a major role in technological advances and various analysis have been done in the recent past. IoT is one of the wireless detector networks used by environmental applications. Anywhere, anytime web browser applications can be used, and wearable body space network has been used enormously for health sector domain. The website information provides special provisions to improve the life of the people by improving the standard of living and hence IoT can be used for any medical emergency application. The well-being of society can be captured with the help of wearable using photoplethysmogram and the same can be observed with the help of a cardiogram. The heart rate observation can be measured with the help of an IoT monitoring device. The monitoring of the IoT-based system can be done by MySignals with the help of a wireless medium with the observation of a sensor attached to the body. Other parameters such as temperature, oxygen saturation level, the pulse rate can also be monitored with the help of these wearables. In this research work, MySignals enlargement associated with Low power long-range LoRa network is used to observe each a signal and the same can be used to perform an investigation on how to use LoRa for such applications. The various sensors can capture the data with the help of MySignals. The main objective is to transfer the received signal from the sensor to the PC with the help of a wireless medium. The signals received from the sensor such as ECG, Oxygen level, heart rate is observed by interfacing with the LoRa. The movement of information is done with the help of sensors and observed by MySignals has been improvised to enhance the well-being of a person.

Document Sections
I. INTRODUCTION
II. METHODOLOGY & MODEL ARCHITECTURE
III. WORKING MODEL & RESULT ANALYSIS
VI. CONCLUSION AND FUTURE SCOPE

Authors
(Show More)
Published in: 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)

Figures
Date of Conference: 7-9 Oct. 2021
DOI: 10.1109/ICOSEC51865.2021.9591851

References
Date Added to IEEE Xplore: 12 November 2021
Publisher: IEEE

Keywords
► ISBN Information:
Conference Location: Trichy, India

Smart Greenhouse Monitoring System using Wireless Sensor Networks

Publisher: IEEE [Cite This](#) [PDF](#)

C Visvesvaran ; S Kamalakannan ; K Nireesh Kumar ; K Meenakshi Sundaram ; S Murugananda Sri Sabari Vasan ; S Jafirin [All Authors](#)

Abstract
A greenhouse is an area with arrangement of components and things that is covered with a kind of materials, like a polyethylene or glass roof or mostly covered with green nets. Since the plants, corps, soil and other materials inside the structure absorbs visible solar radiation rays from the sun, the structure gets heat up dramatically. As a result the greenhouse gases inside the building increases. Many farmers are unable to make good sum from greenhouses because they are unable to control two critical factors: productivity and plant growth. The smart greenhouse monitoring system is designed to assist farmers in overcoming these challenges. The green house monitoring device is powered up by the arduino and Atmega328 microcontrollers and it includes 12v DC fan, LCD display and sensors such as soil moisture sensor, humidity sensor, temperature sensor, light sensor, Light Dependent Resistors(LDR) sensor and a pump. This paper describes the design, installation, and operation of various sensors used to track and manage the environment automatically in greenhouses using Wireless Sensor Network.

Document Sections
I. INTRODUCTION
II. PURPOSE AND EVALUATION OF WORK
III. LITERATURE SURVEY
IV. EXISTING SYSTEM
V. PROPOSED SYSTEM

Authors
Published in: 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)

Greenhouse Monitoring and Control System based on IOT

Publisher: IEEE [Cite This](#) [PDF](#)

Visvesvaran C ; Sudha R ; Ramyadevi. N ; Avenhika K ; Binsha Vinod V C ; Deepashri V [All Authors](#)

Abstract
In olden days the farmer will visit the farm land adequately to look after environmental parameters such as temperature, humidity, light intensity and soil moisture to obtain high productivity. Although this conventional farming has been practiced for years the system seems to be frenzied and failed to increase the productivity rate as accurate manual monitoring of all parameters is burdensome. IOT based greenhouse monitoring and control system project is affiliated to regulate the above mentioned conditions flawlessly in greenhouse.

Document Sections
I. INTRODUCTION
II. PROPOSED SYSTEM
III. METHODOLOGY
IV. HARDWARE DESCRIPTION
V. OUTPUT
Show Full Outline ▼

Authors
Published in: 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)

Figures
Date of Conference: 7-9 Oct. 2021
DOI: 10.1109/ICOSEC51865.2021.9591775

References
Date Added to IEEE Xplore: 12 November 2021
Publisher: IEEE

Keywords
► ISBN Information:
Conference Location: Trichy, India

R&D | PAPER PUBLICATION | ECE

A Deep Learning Based Multi-model for Early prognosticate of Alzheimer's Dementia using MRI Dataset
 Publisher: IEEE [Cite This](#) [PDF](#)

Srivardhini V ; Sankavi M ; Sanjana S ; Kalaivani N ; Dinesh Kumar J R ; Ganesh Babu C [All Authors](#)

Abstract
 Alzheimer's disease involves the death of neurons in the brain, which leads to the patient's memory loss. It is an irreversible neurological disease which has no cure. Early prognosis is important to prevent progress of this disease and to treat the Alzheimer brain images of the patient are captured and classified based on the results. The images of the brain must be clear and it must differentiate the various parts of the brain clearly in order to find the type of the disease. suggestThis paper has suggested using a convolutional neural network to detect Alzheimer's disease (CNN). Further, this study intends to achieve the best disease prediction by using machine learning techniquesfor the benefit of the medical team. It is one of the future scope techniques which make a machine everything possible which can be and cannot be done by humans. The Deep Learning technique has grown a lot in recent years. DL algorithms operate well with massive datasets, which is very useful in cases like AD. Also, the proposed research work has used the Convolutional Neural Network (CNN) technique to classify and identify diseases by using MRI images, with a total of 2560 normal images, 1792 MCI images, 717 early AD images, and 52 late AD portrayals.5121 photos were utilised to train the data and 1279 images were tested once the data had been trained. A significant accuracy of 94% is achieved, to cover a large dataset deep learning algorithm is more beneficial when compared with traditional techniques (machine learning).

Document Sections
 I. INTRODUCTION
 II. MATERIALS AND METHODS
 III. RESULT AND DISCUSSION
 V. CONCLUSION

Authors
 Published in: 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC)
 DOI: 10.1109/ICOSEC51865.2021.9591936
 Date of Conference: 7-9 Oct. 2021
 Date Added to IEEE Xplore: 12 November 2021
 Publisher: IEEE
 Conference Location: Trichy, India

References
 ▶ ISBN Information:

Following faculty members and students from the Department of ECE have presented and published papers in the 2nd International Conference on **Smart Electronics and Communication (ICOSEC)**. It is a Scopus Indexed IEEE Conference.

Name of the Authors	Title of the Paper
Dr.R.Senthil Ganesh	Biometrics based Smart and Secured Electronic Voting Machine
Dr.Balaji.V.R; Mr. Dinesh Kumar.J.R; A.Arivarasan; J.Karthick Raja; P. Chidambaram	Internet of Things based Smart Health Care System using LoRa
Mr.C Visvesvaran; K Niresh Kumar; K Meenakshi Sundaram; S Murugananda Sri Sabari Vasam, S Jafrrin	Smart Greenhouse Monitoring System using Wireless Sensor Networks
Mr.Visvesvaran C; Sudha R; Ramyadevi. N; Aventhika K; Binsha Vinod V C; Deepashri V	Greenhouse Monitoring and Control System based on IOT
Srivardhini V; Sankavi M; Sanjana S; Kalaivani N; Dinesh Kumar J R	A Deep Learning Based Multi-model for Early prognosticate of Alzheimer's Dementia using MRI Dataset

R&D | PATENT PUBLICATION | EEE

2021107101 : A MACHINE LEARNING BASED SYSTEM FOR CLASSIFICATION USING DEVIATION PARAMETERS			
Bibliographic data			
Application details			
Applicant details			
Applicant	Joseph, Susheel	Applicant address	686104 India
Applicant	Borole, Yogini DR	Applicant address	Maharashtra India
Applicant	Gupta, Ganesh DR	Applicant address	Punjab 140413 India
Applicant	Dubey, Kamaniksha	Applicant address	201204 India
Applicant	Kumar, Ajay	Applicant address	201204 India
Applicant	Agrawal, Bhawna DR	Applicant address	464993 India
Applicant	Pothalaiah, S. DR	Applicant address	Telangana India
Applicant	Karthika, J.	Applicant address	Tamilnadu 641008 India
Applicant	Ghosh, Ankush	Applicant address	743368 India

Patent titled “A Machine Learning based System for Classification using Deviation Parameters” filed by **Dr.J.Karthika**, Associate Professor, EEE Department has been published in Australian IPR Journal identified with Appl.No: 2021107101 on 21.11.2021.

WRITE IT RIGHT

Words that often confuse

Forbear
Refrain from something.

Forebear
Ancestors

Forward
Onward or ahead.

Foreword
Introduction at the start of the book.

SKCET



Buzz



TRAINING AND PLACEMENT

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

**SRIMATHI Y,
IT (2021 Batch),
Ford Motor (Ford IT)**

I would like to thank SKCET family which helped me to groom myself both in personal and in academics. Each and every faculty member at SKCET had given their support and guidance for us throughout our academic years. Especially I would like to show my gratitude to the placement team members who gave us lot of trainings as per our skill sets. It has not been an easy year for the placements because of this pandemic situation, Initially, it was hard for us to attend the online drive, but with the help and support of our institution we did well and got placed in the top organizations. Moreover, SKCET gave us lot of opportunities to explore various technologies, without sticking into one. I had spent the best days of my life in SKCET. Been a hosteller, I'm having lot of memories with my friends to cherish for lifetime. And SKCET is also known best for its infrastructure and the climate which gives us the pleasant environment. Eventually, I'm really very proud and happy to be the alumni of SKCET.

PLACEMENT | TESTIMONIAL BY PLACED STUDENTS

**KEERTANA B,
IT (2021 BATCH),
Virtusa**



It is an honor to refer to myself as an alumna of the prestigious Sri Krishna College of Engineering and Technology. It was a great experience studying at SKCET, a memory to cherish for lifetime. My experience at SKCET was full of learning and grooming. I am thankful to all the faculty members, mentors and entire SKCET department for providing us with quality education. I would like to thank the entire placement department and faculty members who have tried their level best and brought many well reputed companies for the campus drive. They trained us in systematic manner so that a large number of students have to be selected in the well reputed companies. They have taken the initiative of making a bright future of the students and are moving ahead in progression. Once again my special thanks to the placement department of our college who helped me with all the tips and tricks, all the technical question answering skills and aptitude skills to crack an interview.

SKCET

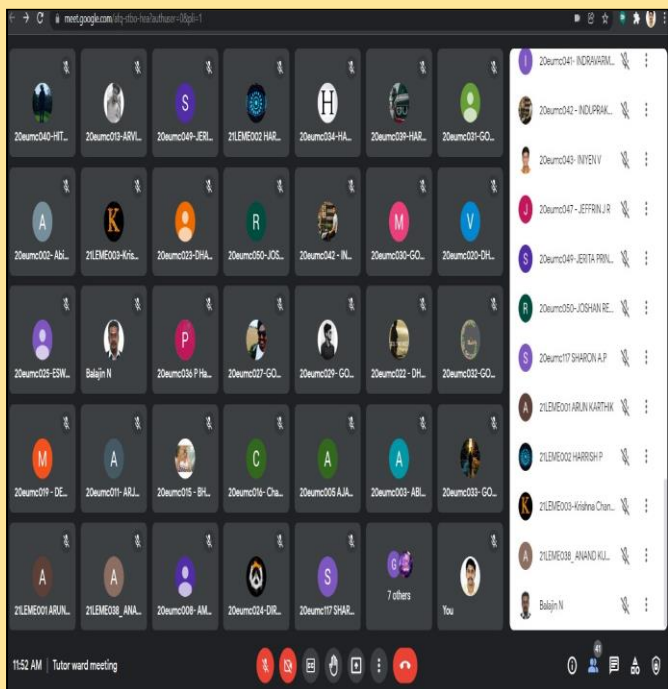


Buzz



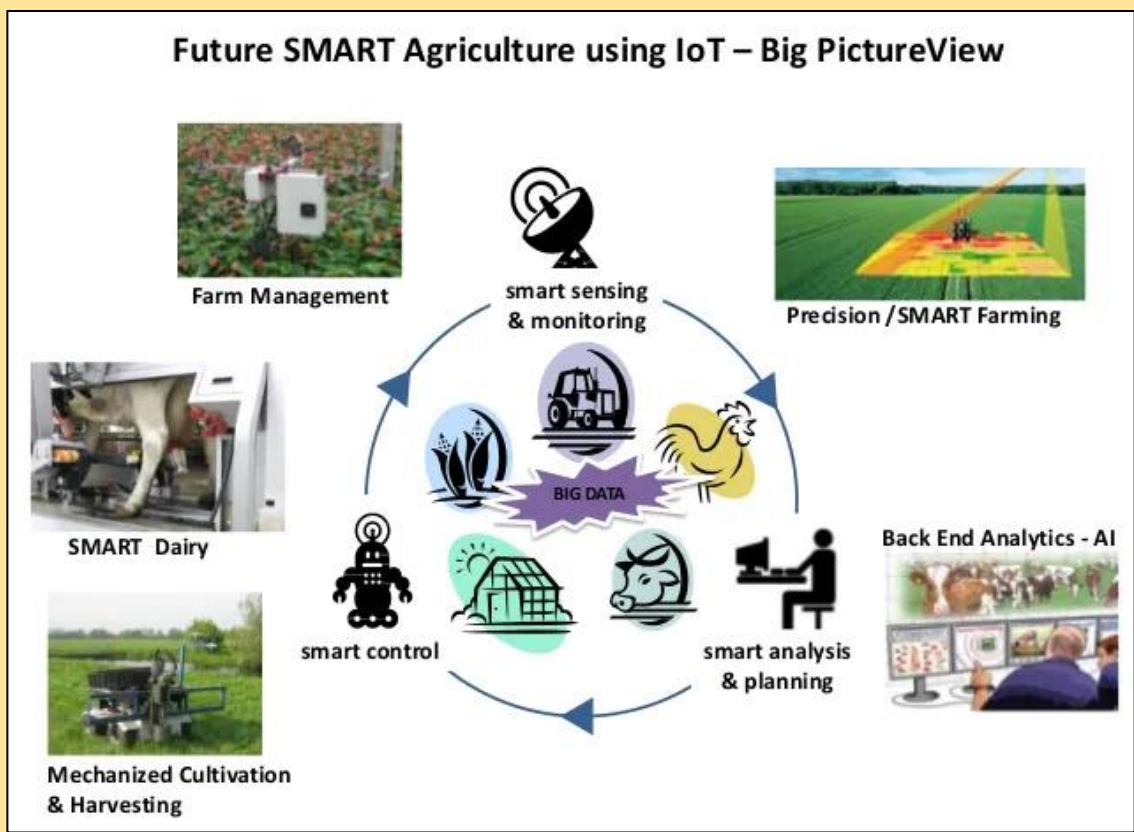
TUTOR WARD MEETING

MECH | TUTOR WARD MEETING | II YEAR



Dr.S.Karthik, Dr.N.Balaji and Dr.R.Arunbharathi, faculty members, Department of Mechanical Engineering convened Tutor Ward Meeting for Second year students on 19.11.2021. Commencement of offline classes, model exam schedule were the pointers of discussion.

INFOGRAPHICS | SMART AGRICULTURE USING IOT



SKCET



FACULTY CERTIFICATIONS

EEE | FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT



Ms.G.Mahalakshmi, Assistant Professor, EEE Department has participated in ATAL Academy Faculty Development Program on "Cyber Physical Systems for Smart Environment and Industrial IOT" from 08.11.2021 to 12.11.2021 organized by Sri Krishna College of Engineering and Technology, Coimbatore.

CSE | FDP ON INTERNET OF THINGS AND HUMAN COMPUTER INTERACTION

Ms.S.Nagajothi, Assistant Professor, CSE has participated in an online FDP titled "Internet of Things and Human-Computer Interaction" from 25.10.2021 to 29.10.2021 organized by National Institute of Technology Goa.



IT | FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT



Dr. Granty Regina Elwin, Associate Professor, **Ms. Sruthi Anand**, Assistant Professor, Department of **Information Technology** has participated and completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Cyber Physical Systems for Smart Environment and Industrial IOT” from 08.11.2021 to 12.11.2021 organized by Sri Krishna College of Engineering and Technology.



MCT | FDP ON IMPLEMENTATION OF EMERGING WASTE-TO-ENERGY TECHNOLOGIES

Mr. S. Madhankumar, Assistant Professor, MCT has participated in the AICTE Training And Learning Academy Online FDP on "Implementation of Emerging Waste-To-Energy Technologies - An Opportunity and The challenges on Energy Recovery Systems" from 15.11.2021 to 19.11.2021 organized by New Horizon College of Engineering.



IT | ORACLE CLOUD INFRASTRUCTURE FOUNDATION ASSOCIATE



Dr.A Kousalya, Ms.V.Sindhu Ms.R.Indhu and Ms.Raihana faculty members, Department of **Information Technology** have been recognized as **“Oracle Cloud Infrastructure Foundations 2021 Certified Associate”** by Oracle Corporation.

SOM | WEBINAR ON CHARMS OF BEING AN ENTREPRENEUR AND AGRIBUSINESS IDEAS

Dr.P.Thamaraiselvi, HoD, SoM and Mr.J.Prabhakaran, Assistant Professor, School of Management have participated in a webinar on “Charms of Being an Entrepreneur and Agribusiness Ideas” organized by ICAR-NIVEDI on 20th November 2021.



SOM | INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME



Mr.R.Muthukrishnan, Assistant Professor, School of Management participated in the International Faculty Development Programme on “Innovative Teaching Techniques & Research Methodology” organized by Sri Ramakrishna College of Arts & Science, Coimbatore from 15th to 20th November 2021.

CSE | FDP ON CYBER PHYSICAL SYSTEMS FOR SMART ENVIRONMENT AND INDUSTRIAL IOT



Dr.D.Prabha, Professor,
Dr.P.Pushpalatha, Assistant Professor, CSE have participated in online FDP on "Cyber Physical Systems for Smart Environment and Industrial IoT" from 08.11.2021 to 12.11.2021 at Sri Krishna College of Engineering and Technology.

EEE | FDP ON WASTE TECHNOLOGY - ENERGY CONVERSION AND UTILIZATION

Ms.R.Geethamani, Assistant Professor, EEE Department has participated in ATAL Academy Faculty Development Program on "Waste Technology - Energy Conversion and Utilization" organized by Mohamed Sathak Engineering College, Chennai.



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FACULTY PROGRESSION

MECH | WEBINAR- RESOURCE PERSON

SANT BABA BHAG SINGH UNIVERSITY
LARRY KAPOOR BUILDING
Approved under Punjab Govt. Act no. 6 of 2015.
Recognized by UGC under Section 2(B) of UGC Act, 1956
KHALA, ADAMPUR, JALANDHAR

**ONE DAY WEBINAR ON
IPR
E-FILING**

ORGANIZED BY
Research & Development Department, UIET in collaboration with
IPR Cell SBBSU and Innovation Cell, SBBSU
Under the aegis of IQAC, SBBSU
**18th November, 2021
2:00 PM - 3:00 PM**

With Heavenly blessings of
Sant Baba Dwarer Singh Ji (Bachan Ji)

Chief Patron
Sant Sarwan Singh Ji
Hon'ble Chancellor, SBBSU

Patron
Dr. Dharam Singh Parmar
Vice Chancellor, SBBSU

CONVENOR
Dr. VIKAS DUBEY
DIRECTOR IQAC

Dr. JAGDEEP KAUR
Dy. Dean IET

Dr. HARPREET KAUR
DIRECTOR IQAC

CO-CONVENOR
Dr. MUNISH GUPTA
Dy. DIRECTOR IQAC

Dr. VINEET SARYAN
IPR CELL, SBBSU

Dr. HARJEET SINGH
ASSOCIATE PROFESSOR IQAC

Speakers:
Dr. BALAMURUGAN, S
Assistant Professor,
Sri Krishna College of Engineering
and Technology, Coimbatore

Dr. HONEY SHARMA
IPR CELL, SBBSU

Dr. NEHA KAPILA
IPR CELL, SBBSU

Dr. HARJEET SINGH
ASSISTANT DIRECTOR IQAC

CONTACT US AT
sbbsuipr@sbbsu.ac.in
(+91) 9501030920, 8054139336

Via:- Google meet
<https://meet.google.com/sen-crqb-iyh>

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Mr.S.Balamurugan, Assistant Professor, Mechanical Engineering has delivered a webinar on 'IPR E - Filing' organized by Sant Baba Bhag Singh University, Punjab on 18.11.2021.

MECH | WEBINAR- RESOURCE PERSON

Dr.M.Arunachalam, Professor, Department of Information Technology, has been certified as an advisory member of World Research Forum for Engineers and Researchers.

WRFER World Research Forum for Engineers and Researchers
WORLD RESEARCH FORUM
FOR ENGINEERS AND RESEARCHERS

**Certificate
of Membership**

MEMBERSHIP ID
WR21516CM

This is to Certify that
DR. M. ARUNACHALAM
is an Advisory Member of
World Research Forum for Engineers and
Researchers.

07-10-2021
Date of Issue

World Research Forum for
Engineers and Researchers
WRFER*

Chairman's Signature

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