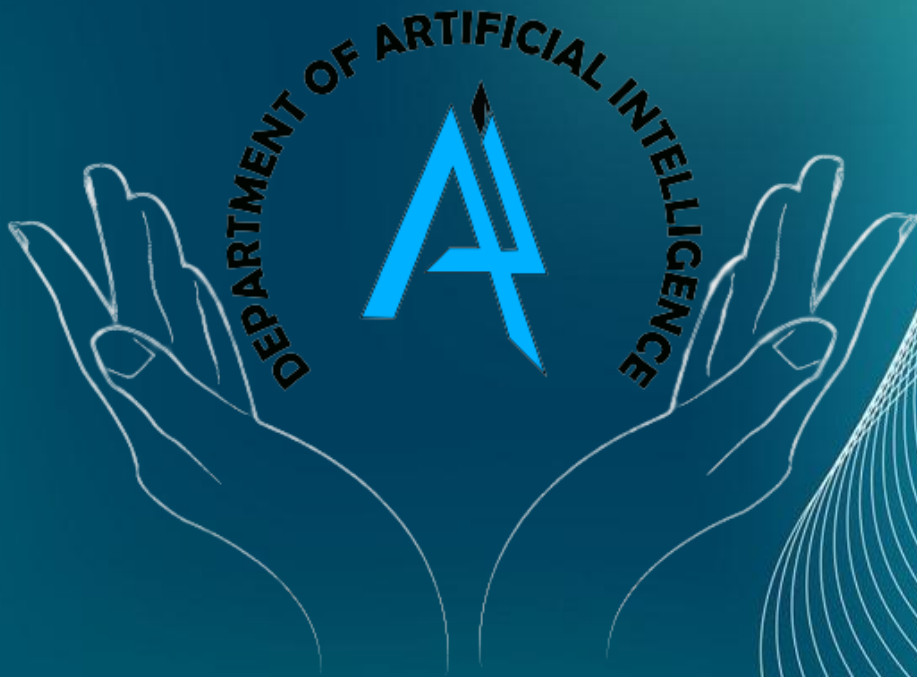


COLLEGE AUTONOMOUS

M.KUMARASAMY COLLEGE OF ENGINEERING



**DEPARTMENT
OF
ARTIFICIAL INTELLIGENCE**



DISCIPLINE IS SMART WORK IS SUCCESS



M. Kumarasamy
College of Engineering

NAAC Accredited Autonomous Institution

Approved by AICTE & Affiliated to Anna University

ISO 9001:2015 Certified Institution

Thalavapalayam, Karur, Tamilnadu.





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KARUR***

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KARTHIKEYAN L

II-YEAR, AI&DS

JEEVITHA .K

II-YEAR, AI&DS

"Learn from yesterday. Live for today. Hope for tomorrow."

– Albert Einstein

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M.KUMARASAMY COLLEGE OF ENGINEERING

VISION AND MISSION

VISION

- **To emerge as a leader among the top institutions the field of technical education.**

MISSION

- **Produce smart technocrats with empirical knowledge who can surmount the global challenges**
- **Create a diverse, fully-engaged, learner-centric campus environment to provide quality education to the students**
- **Maintain mutually beneficial partnerships with our alumni, industry and professional associations**

ABOUT US

M.Kumarasamy College of Engineering established in the year 2000 by M.Kumarasamy Health and Educational Trust with a vision to provide technical education for all sections of the society has made rapid strides on all fronts to achieve academic excellence in a short span of time. The college has earned a remarkable position in the field of technical education through the untiring efforts of the visionary management, competent faculty members and stupendous students. The institution with its state of the art facilities and dedicated team of faculty members has become a hub of technocrats and is marching towards new frontiers. The consistently good academic performance of the students coupled with excellent placement record portrays the quality of education being provided in the college. The mantra of success for the college emanates from its strong value system which gives prominence for developing responsible citizens to build a strong India.



DEPARTMENT OF ARTIFICIAL INTELLIGENCE

VISION

- To reach excellent standards of quality-education by using latest tools and to be the centre of excellence by promoting knowledge centric education, innovation and state-of-art research in the field of Artificial Intelligence and Data Science

MISSION

- To impart quality and value based education and contribute towards the innovation of computing, expert system, Data Science to raise satisfaction level of all stakeholders.
- To educate the future Computing engineers with strong fundamentals by continuously improving the teaching learning Methodologies using contemporary aids.
- Enabling students to get expertise in critical skills with Artificial Intelligence domain and facilitate socially responsive research and innovation.



ABOUT US

M Kumarasamy College of Engineering (MKCE) proudly launches an innovative B.Tech - Artificial Intelligence and Data Science (AI & DS) Programme in association with International Business Machines (IBM) during the academic year 2020 - 21. Due to the exploration of the Internet, AI and DS deliver data-driven solutions using computational principles, methods, and systems for extracting information from data and modern computational systems that reveal capabilities of insight, way of thinking, learning and action that are typical of human intelligence. This course has been introduced to the students with the vision to provide them with holistic knowledge and applications in the field of AI&DS.

The basic objectives of this course are to train the students to acquire the skills to perform intelligent data analysis which is a key component in numerous real-world applications. With the tremendous amount of data generated every day and the computing power available, Data Science plays a seminal role in helping every business organization in identifying business trends and changes through advanced Big Data Analytics. Interpretation and prediction of business results and the future are no longer rocket science with a variety of techniques and tools such as statistical analysis, data aggregation, and data mining.

WORKSHOP, SEMINAR ORGANIZED

Department of AI &DS and Chemistry coordinatively conducted an webinar on 21st May 2021 in the topic of “**APPLICATION OF AI IN CHEMISTRY**” through Google meet by inviting the Resource person Dr. Anand Krishnan Dept of Chemical pathology, University of the Free State, Bioemfontein, South Africa.

Department of AI &DS and CSBS coordinatively conducted an expert webinar on 28th August 2021 in the topic of “**APPLICATIONS OF AI & GOOGLE COLAB WITH PYTHON**” through Google meet by inviting the Chief Guest Dr. BALAMURUGAN EASWARAN.

Department of AI &DS and CSBS coordinatively conducted an expert webinar on 25th September 2021 in the topic of “**TEXT PREDICTION Using RNN & LSTM**” through Google Meet by inviting the Presenter Dr. K. RAMALAKSHMI, Associate Professor, Alliance College of Engineering & Design, Bangalore.

Department of AI &DS and CSBS combinely attended the IET CLN, Virtual Factory Tour named **Nokia Chennai Factory Industrial Visit** through WebEx conducted by Nokia Solutions and Networks Ltd, Chennai.

Department of AI &DS and CSBS coordinatively conducted an expert webinar on 9th September 2021 in the topic of “**WEBSITE DEVELOPMENT USING JSP & SPRINGBOOT**” through Google meet by inviting the Chief Guest Dr. T. Ruso, Associate Consultant, Wipro Limited, Chennai.

Intel Core Student team members from computing departments were proudly organized an “AI The EXPLORA” Workshop on 9th March 2022 in collaboration with Institution’s Innovation Council in the campus of MKCE.

MKCE IIC/IEDC/E-Cell of MKCE organized Two day Session on “**FUNDAMENTALS OF PROGRAMMING LANGUAGES OF AI-APPLICATIONS**” at the institute campus on 8th and 9th April 2022.

MKCE IIC/IEDC/E-Cell of MKCE proudly presented National Level Webinar on “**PATENT FACILITATION AND AWARENESS**” in collaboration with Institution’s Innovation Council through Google Meet on 10th March 2022.

STUDENTS ACHIEVEMENTS AND AWARDS (CO-CURRICULAR AND EXTRA-CURRICULAR)

STUDENT OF II-YEAR-ARTIFICIAL INTELLIGENCE AND DATA SCIENCE KIRUTHIKA.S. SHE IS VERY DEDICATED AND HARD WORKING STUDENT AND SHE SELECTED AS A CAMPUS AMBASSADOR IN VARIOUS COMPANY IN HIS SECOND YEAR.



KIRUTHIGA S
II-YEAR, AI&DS

1

INTEL STUDENT AMBASSADOR,
INTEL

2

CAMPUS AMBASSDOR,
DEEP LEARNING.AI

3

CAMPUS AMBASSDOR,
IBM

Divesh Iyyapan S is a determined and dedicated student of II year Artificial Intelligence and Data Science.

He was selected as Microsoft Learn Student Ambassador in January 2022 and currently he advanced to Beta milestone.

He hosted two events as a Microsoft Learn Student Ambassador.

- 1. Introduction to Microsoft Azure**
- 2. DataViz using PowerBI**

He won five awards won in SPECTRA'22, a national level technical symposium organized by Dr.G.U.Pope College of Engineering, Thoothukudi.

- 1. Overall Champion**
- 2. Best Junior Programmer**
- 3. Best Aptitude Cracker**
- 4. Best PPT Presenter**
- 5. Best Speaker**



DIVESH IYYAPAN S
II-YEAR AI&DS,
Microsoft Learn
Student Ambassador



ACHIEVEMENTS OF DIVESH IYYAPAN S

S.No.	Event	Organizer	Prize
1	Paper presentation	Institute of Industrial Design, Salem	Winner (Cash prize+trophy)
2	Writing contest	Team Everest, Avadi	Winner
3	LANA (Mock Interview)	Bannari Amman Institute of Technology, Erode	Winner
4	Penning Zone	Bannari Amman Institute of Technology, Erode	Winner
5	Pictogram	Bannari Amman Institute of Technology, Erode	Winner
6	Tech Talk	Velalar College of Engineering and Technology, Erode	Winner
7	This House Wants to Know	Xavier School of Management, Jamshedpur	Third Runner
8	On The Face Of It	Maharaja Surajmal Institute, New Delhi	First Runner
9	Certificate Designing Contest	M.Kumarasamy College of Engineering, Karur	First Runner (Cash Prize)



DR.G.U POPE
COLLEGE OF ENGINEERING
SAWYERPURAM, THOOTHUKUDI

Congratulations for showing that diligent work and trustworthiness are required the best practices. Well done for winning the competition! You are bound to become wildly successful, you simply didn't have any acquaintance with it. May the achievement that has come to your direction today lead you to a successful life and gives you more confidence

Congratulations!

**SPECTRA AWARD
HOLDERS - 2022**

DEPARTMENT OF ECE



DIVESH IYYAPAN S
OVERALL
CHAMPION


GAYATHIRI S


ABARANA P


ROSHINA DAICY R


NITHISHA S


JANA RANJINI M


MARYA PRINCEYA B


SOBANA LAKMI T


CHRISTOBELL S


KIRTHICK D


POOMALAR SELVI R


NATTAR LAKSHMI PRIYA B


KARPAGAM


MUTHURAJESH R


JEYAMARAN M


ESTHER RANI G


RITTHIKA M


PRABHU K V


RANJITH M


MUTHU SELVI E


SUDHARSAN G


SWARNALAKSHMI M


SOUNDARYA V


LOURDU MANI SEINA R


PETCHIAMMAL V


MUTHUVASANTHAT


ABISHEK R


SAKTHIVEL K


SUDARVIZHI K


JANANI M

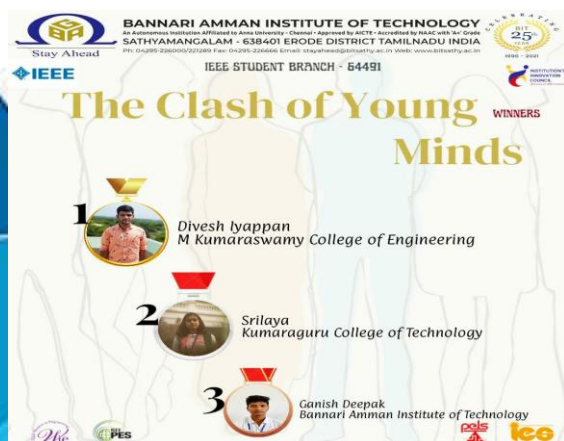

SAM RAJ M


MANI K


GURUCHANDRAN M

ACHIEVEMENTS OF DIVESH IYYAPAN S

S.No.	Event	Organizer	Prize
10	Who Am I	Bannari Amman Institute of Technology, Erode	Winner
11	We Byte 2.0	Bannari Amman Institute of Technology, Erode	Winner
12	Zust A Minute	Velalar College of Engineering and Technology, Erode	Winner
13	IANS	Bannari Amman Institute of Technology, Erode	First Runner
14	Vorbi'21	Bannari Amman Institute of Technology, Erode	Second Runner
15	Poem Writing Contest	Dr.G.U.Pope College of Engineering, Thoothukudi	First Runner
16	The Clash of Young Minds	Bannari Amman Institute of Technology, Erode	Winner
17	Link - It	Sengunthar College of Engineering, Thiruchengode	First Runner (Cash Prize + Trophy)
18	DI - BATE	Bannari Amman Institute of Technology, Erode	First Runner
19	Escape Room	Bannari Amman Institute of Technology, Erode	Second Runner



TAMIL SELVAN
II-YEAR AI&DS,



- ✓ **Tamilselvan from department of artificial intelligence and data science student. And he is very dedicated and hardworking student and he got prizes in various Institute competitions.**
- ✓ **He won first prize in peaky coders, a national level technical coding competition organized by velammal engineering college.**
- ✓ **First prize in Data visualization contest conducted by Microsoft Learn Student Ambassadors**

GOWTHAM M,
BARATH KUMAR JK,
DEEPAK D,
DIVESH IYYAPAN S
II-YEAR AI&DS



Our students from department of artificial intelligence were participated in VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY organized a 17'th national level technical symposium of horizon'22 event and got **FIRST PRIZE.**

"The best way to predict your future is to create it."

–Abraham Lincoln

GOWTHAM M,
II-YEAR AI&DS



DIVESH
IYYAPAN S
II-YEAR AI&DS

DEEPAK D,
II-YEAR
AI&DS

Our students from department of artificial intelligence were participated in INNOVATION & ENTREPRENEURSHIP DEVELOPMENT PROGRAM (POM-IEDP) TNSI and selected as **Semi-Finalists** in SASTRA UNIVERSITY, Thanjavur

“Life is a journey, not a destination”

—Ralph Waldo Emerson

I-Year Student's Achievements

Student Name	Name of the Event	College/University	Prize
ABISHAK D	HI-LOOP 2022	HINDUSTAN INSTITUTIONS,COIMBATORE	
HARISH SRIRAJ N	E-CON	KARPAGAM COLLEGE OF ENGINEERING	
HARISH SRIRAJ N	WASTE 2 MASS	KARPAGAM COLLEGE OF ENGINEERING	
KAVIN M	HI-LOOP 2022	HINDUSTAN INSTITUTIONS,COIMBATORE	
LINGESH S	HI-LOOP 2022	HINDUSTAN INSTITUTIONS,COIMBATORE	
MADHUMITHRA M	JUST A MINUTE TALK	KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY	
MOHANAVARMA M G	WASTE 2 MASS	KARPAGAM COLLEGE OF ENGINEERING	
NAVANEETH S	HI-LOOP 2022	HINDUSTAN INSTITUTIONS,COIMBATORE	
NIKITHA Y S	PPT	KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY	
S.SOWNDHAR	E-CON	KARPAGAM COLLEGE OF ENGINEERING	
SREE ASWIN RAJHA RS	HI-LOOP 2022	HINDUSTAN INSTITUTIONS,COIMBATORE	
VIMAL MATHEW B	WASTE 2 MASS	KARPAGAM COLLEGE OF ENGINEERING	

I-Year Student's Achievements

Student Name	Name of the Event	College/University	Prize
BALAKUMAR	IDEATHON	V.S.B ENGINEERING COLLEGE	I PRIZE
M.D BALAKUMAR	CASTLE CUP	V.S.B ENGINEERING COLLEGE	I PRIZE
BHARATH PRIYAN S	MOTO QUIZ	V.S.B ENGINEERING COLLEGE	WINNER
S T GOWSIDHARAN	IDEATHON	V.S.B ENGINEERING COLLEGE	I PRIZE
R KRITHICROSAN	IDEATHON	V.S.B ENGINEERING COLLEGE	I PRIZE
NANDHINI S	SALAM INDIA PRASNOTHRI PRATHIYOGITHA	ONLINE QUIZ COMPETITION BY GOVERNMENT OF INDIA	ALL INDIA 7TH
SARATHI S	MOTO QUIZ	V.S.B ENGINEERING COLLEGE	WINNER

JOURNAL PUBLICATIONS

1

NAME OF JOURNAL
JOURNAL OF AUTOMATED SOFTWARE
ENGINEERING

TITLE
STRATEGIC REAL TIME FRAMEWORK FOR
HEALTHCARE USING FUZZY C-MEANS SYSTEMS

ISSN NUMBER
10515-021-00302-0

DATE OF PUBLICATION
JAN ,2022

**LINK TO ABSTRACT
OF THE ARTICLE**
<https://www.springer.com/journal/10515>

2

NAME OF JOURNAL
WIRELESS PERSONAL COMMUNICATION

TITLE
MULTI OBJECTIVE GLOW SWARM BASED
SITUATION AND QUALITY AWARE ROUTING IN
VANET

ISSN NUMBER
0929-6212

DATE OF PUBLICATION
MARCH, 2022

**LINK TO ABSTRACT
OF THE ARTICLE**
<https://link.springer.com/article/10.1007/s11277-022-09582-5>

3

NAME OF JOURNAL
COMPUTER SYSTEMS SCIENCE & ENGINEERING

TITLE
AN EFFICIENT DEEP LEARNING - BASED CONTENT-
BASED IMAGE RETRIEVAL FRAMEWORK

ISSN NUMBER
0267-6212

DATE OF PUBLICATION
APRIL , 2022

**LINK TO ABSTRACT
OF THE ARTICLE**
<https://www.techscience.com/csse/v43n2/47413>

4

NAME OF JOURNAL
JOURNAL OF PHYSICS: CONFERENCE SERIES

TITLE
CONTENT-BASED IMAGE RETRIEVAL TECHNIQUES :
A SURVEY

ISSN NUMBER
1742-6596

DATE OF PUBLICATION
2021

**LINK TO ABSTRACT
OF THE ARTICLE**
<https://iopscience.iop.org/article/10.1088/1742-6596/1964/4/042027>



Dr.N.M.SARAVANAKUMAR
HOD, DEPARTMENT OF AI



JEYGANESH
AP/AI

NAME OF JOURNAL

JOURNAL OF PERSONAL AND
UBIQUITOUS COMPUTING(SPRINGER)

TITLE

IMPROVING ENERGY- EFFICIENT
MANAGEMENT FOR IDENTIFYING SOFTWARE
REQUIREMENT PRIORITIZATION BASED ON
OPTIMIZED FUZZY LOGIC SOCIAL SPIDER
OPTIMIZATION

DATE OF PUBLICATION

SEPTEMBER ,2021

NAME OF JOURNAL
JOURNAL OF UNIVERSITY OF
SHANGHAI FOR SCIENCE AND
TECHNOLOGY

TITLE
ADVANCED TECHNIQUE FOR
CLASSIFICATION AND
DETECTION OF BRAIN TUMOR IN
MAGNETIC IMAGES

ISSN NUMBER
10076735

DATE OF PUBLICATION
OCTOBER' 2021

LINK TO ABSTRACT
OF THE ARTICLE
<https://jusst.org/advanced-technique-for-classification-and-detection-of-brain-tumor-in-magnetic-resonance-images/>



Mrs.P.VIDHYA,
AP/AI

NAME OF JOURNAL

TURKISH ONLINE
JOURNAL OF
QUALITATIVE
INQUIRY

TITLE

A EVALUATIVE OF
ORAL
COMMUNICATION
SKILL USING K-MEANS
CLUSTERING
TECHNIQUES

ISSN NUMBER

2021-507-512

**DATE OF
PUBLICATION**

JUNE, 2021

**LINK TO ABSTRACT
OF THE ARTICLE**

[https://www.toigi.net/index
.php/journal/article/view/7
34/227](https://www.toigi.net/index.php/journal/article/view/734/227)



Mrs.S.Subha

AP/AI



G.GOVINDHARAJ,
AP/AI&DS (MATHS)

NAME OF JOURNAL

ADVANCES AND APPLICATIONS IN MATHEMATICAL SCIENCES

TITLE

COMMON FIXED POINT UNDER GENERALIZED CONDITION ON
COMPLEX QUASI-PARTIAL METRIC SPACE AND APPLICATIONS C--
0974- 6803

DATE OF PUBLICATION

MARCH ,2022

ASSOCIATION EVENTS

DEPARTMENT OF ARTIFICIAL INTELLIGENCE NEURA

CHIEF GUEST

Dr.K.SundaraRaju

Dean Admission

Date: 11.03.2022(Friday) @ 3.00 pm – 04.30 pm

Venue : Dr.A.P.J.Abdul kalam block, C.V.Raman Hall

GALLERY



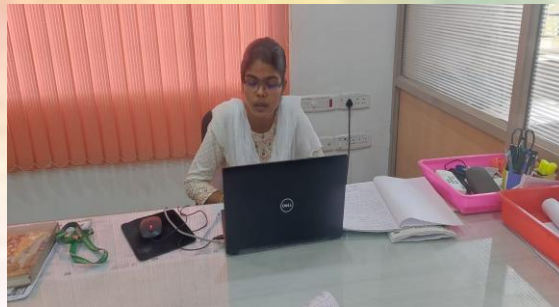
NEURA INAGURATION



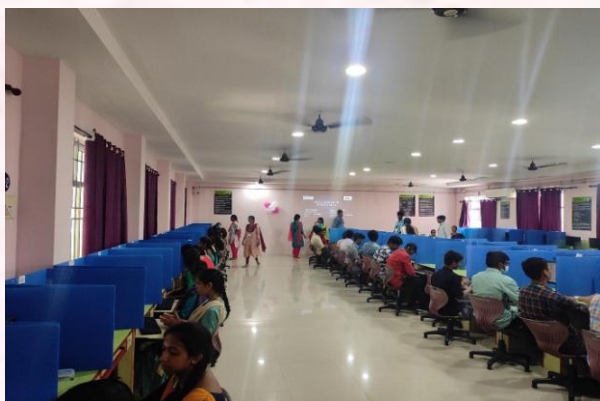
AWARDING TO THE ACHIVERS



PROJECT EXPO



AI EXPOLRA INTERNATIONAL EVENT



QUNTA '2020 INTRA COLLEGE MEET

**“The whole purpose of education is to turn
mirrors into windows.”**

-Sydney J. Harris





DEPARTMENT OF CIVIL ENGINEERING
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ACADEMIC YEAR 2021 - 22
 With effective from 02.08.2021

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24	Ms.M.Sandhiya	AP/Civil	Executive Member
25	Mrs.R.Saranya	AP/Civil	Executive Member

[Signature]
 Association/Incharge

[Signature] 2/8/21
 HOD/CIVIL
 Head of the Department
 Department of Civil Engineering
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 (Autonomous) Karur - 639113.



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Thalavapalayam, Karur, Tamilnadu.



WE CONSTRUCT THE WORLD.....!!!



**A MAGAZINE
OF
CIVIL ENGINEERING DEPARTMENT**

JUNE - 2022



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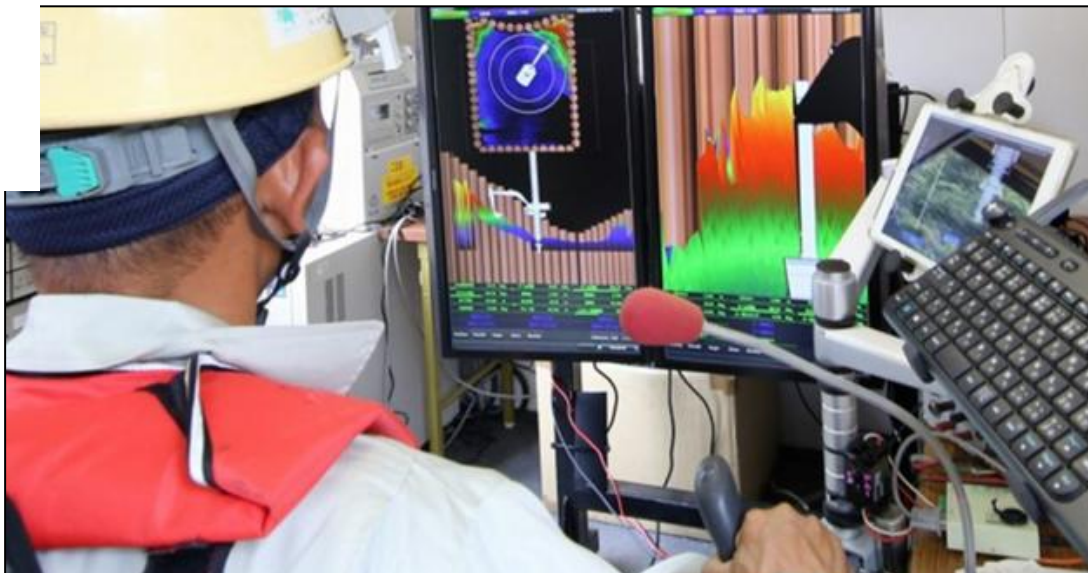
Department of Civil Engineering.

LATEST INNOVATIONS IN CONSTRUCTION

Innovation in construction plays an important role in making building construction faster and sustainable. New innovation in the Civil Engineering industry emerges continuously with time to increase the efficiency, quality, and sustainability of a construction project. New emerging new technology in civil engineering is influencing the construction industry like never before. It may be considered from cloud-based collaboration and artificial intelligence based robots, super-materials, wearable tech, pollution-eating buildings, all contributing to improving the efficiency of the construction industry. So, here are some latest technologies in civil engineering to watch in 2022 and beyond.

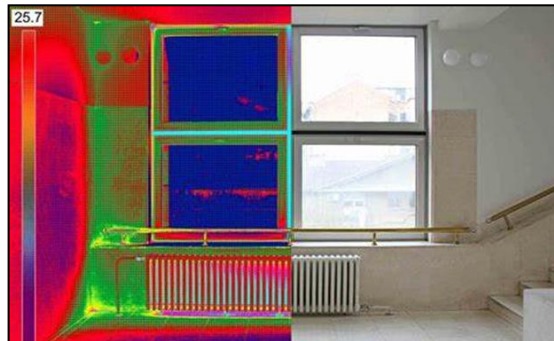
1. Remote Sharing Data

Remote sensing applications in civil engineering are indispensable for professionals working in this field. The application of remote sensing in civil engineering has profound consequences for every project. Tools like GIS enable problem-solving by integrating various data streams in order to develop the most viable models. Examples include demographic information, natural resource and information about the socio-economic status of entire population sets. The ability to customize a solution is another important consideration for civil engineers who work in situations that require additional analytical or technical support.



2. Thermal bridging

A thermal bridge, also called a cold bridge, heat bridge or thermal bypass, is an area or component of an object which has higher thermal conductivity than the surrounding materials, creating a path of least resistance for heat transfer. Thermal bridges result in an overall reduction in thermal resistance of the object. The term is frequently discussed in the context of a building's thermal envelope where thermal bridges result in heat transfer into or out of conditioned space.



3. Kinetic road

Kinetic Road is a term that can be defined as the system to harvest energy from the kinetic energy produced by moving vehicles and convert it into electric energy. Energy harvesting technologies from road infrastructure is a new research territory in civil engineering that encompasses technologies that capture the wasted energy that occurred at pavements, accumulate, and store it for later use.



4. **Solar roading concept**

A solar roadway is a street surface that produces electricity. It consists of a glass layer, an electronic layer, and a base plate layer. The construction process involves furnishing and wiring the base plate, placement and connection of solar photovoltaic cells with the previously placed layers, and finally, the positioning of the glass layer.



5. **Green roof system**

At Green Roof Technology we understood that every Green Roof is as unique as the location of the structure. Further unique is the design, the usage intend of the building, and the budget. In addition, it is obvious that a warranty or exclusivity on product does not help the plants. It is best for the plants and within the design intend. Likewise, architects design within a wide range of parameters.



6. Water plastic road

Plastic roads were first developed by Rajagopalan Vasudevan in 2001, consisting of an asphalt mix incorporating plastic waste. The incorporation of plastics in roads could open an additional option for recycling post-consumer plastics. Australia, Indonesia, India, the United Kingdom, the United States, and many other countries have trialed technologies that can incorporate plastic waste into an asphalt mix.



7. Vertical farming:

Vertical farming is the practice of growing crops in vertically stacked layers. It often incorporates controlled-environment agriculture, which aims to optimize plant growth, and soilless farming techniques such as hydroponics, aquaponics, and aeroponics. Some common choices of structures to house vertical farming systems include buildings, shipping containers, tunnels, and abandoned mine shafts. As of 2020, there is the equivalent of about 30 ha (74 acres) of operational vertical farmland in the world.



8. Ecofloating homes

“Floating” term in the foundation engineering is used when the soil beneath the footing does not experience any extra load, as the load of the structure is equal or less than the soil displaced. Floating houses are similar in concept and can be defined those houses which are constructed on water in a way that the load of the structure is equal or less than the uplift force of the water which helps in floating the house on water. Traditional houses like houses on boats have mobility while now floating houses are considered those houses which are used as living spaces on water that are minimally mobile other than moving vertically with the tide. Unlike a houseboat, a float house is not self-propelled though some smaller float houses can be propelled by attaching an outboard motor to them. Holland has many float houses as they have started using water as a resource for construction of houses.



Empower your people. Unlock their potential.

There is a proverb called “**Nothing is impossible.**” It is not actually for phrase but it really mean the sense of it. When anyone does anything that is could not be done by everyone, it becomes a record. Every one of us is gifted. The difference between us is we are gifted differently. There always exists coherence between innate skill and induced skill.

Innate skill is called as Talent which is unique for all and induced skill which is common for all is called as hard work. Sometimes hard work can beat talent when talent doesn't work hard. If one want to shine so that he/she can sign, that person must possess both hard work and talent. Because the saddest aspect of life is a wasted talent and the pathetic state about it is absence of hard work. But a thing which has to be remembered always is “**Great things always takes time.**” When a person has a talent about something, he will execute it good. Same person if works hard on it, he will do it better and once that person is passionate about it he will do it to the best.

LIFE IS SHORT

FOLLOW YOUR HEART

MAKE A SPACE AND

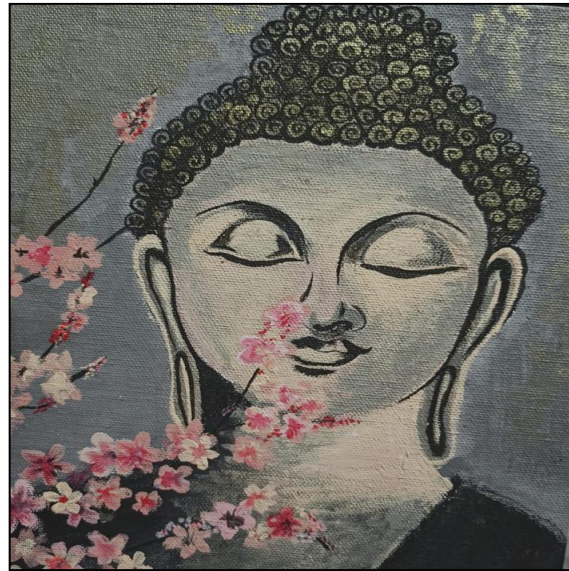
SET YOUR PACE

-Alexander Babu

Here, we feel glad to display the various talents of our people.

ART

For as long as humanity has existed, art has been part of our lives. For many years, people have been creating and enjoying art. It expresses emotions or expression of life. It is one such creation that enables interpretation of any kind. Art is more than creative expression, which has been the dominant theme of art education for much of the twentieth century. Expression is important, but researchers are also finding connections between learning. We must never forget that art is not a form of propaganda; it is a form of truth.



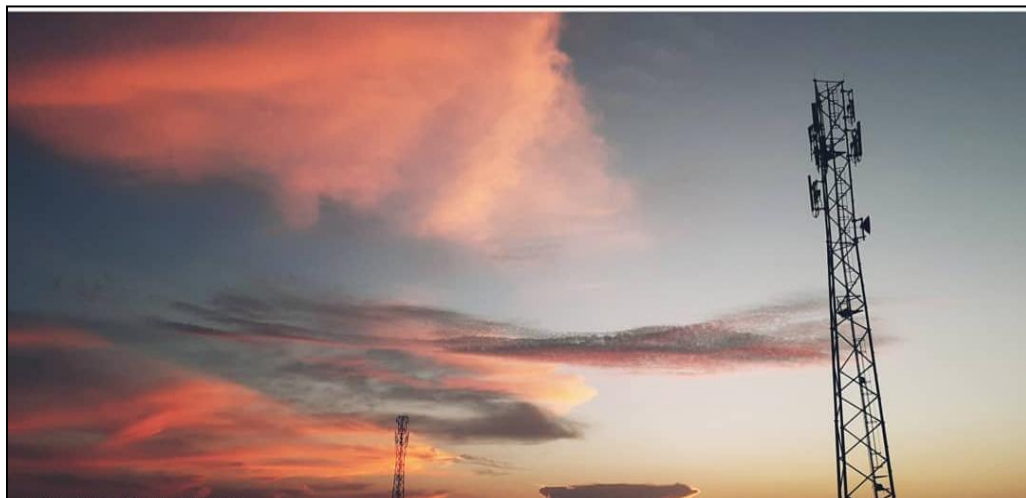
HARINI K K (19BCE4008)

PHOTOGRAPHY

Photography is the art of capturing light with a camera, usually via a digital sensor or film, to create an image. With the right camera equipment, you can even photograph wavelengths of light invisible to the human eye, including UV, infrared, and radio.

“In photography, there is a reality so subtle that it becomes more real than reality.”

-Alfred Stieglitz



PARAMKUMAR B (19BCE4019)



PRASANNA B (19BCE4020)



HARINI K K (19BCE4008)



SANTHOSH S (19BCE4026)





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Thalavapalayam, Karur-639 113, Tamilnadu.



NEWSLETTER

OF

CIVIL ENGINEERING DEPARTMENT

VOLUME-VII ISSUE -I

DEC 2021



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MKCE AT GLANCE

M. Kumarasamy College of Engineering was established in the year 2000. The aim of the institution is to enrich the knowledge of student's community with the latest technologies and development in various fields of Engineering. We have rigorous quality measures to make sure that no compromise is made in the quality of teaching. Our performance has put as benchmark for other institution and we have developed the popular name among the students to a fraternity. The institution is one among the best self-financing engineering college imparting high quality education in Tamilnadu. The college has been elevated to the autonomous in the year of 2011. Ranked among top 50 engineering institution in India by career links in the year 2015. Ranked 18th in India and 2nd in Tamilnadu among the outstanding engineering colleges of excellence competition success Review, May 2015. Ranked 4th position among the top 10 institute scores for placement and new horizon college of engineering in India by Data Quest, May 2015. Our college achieved AAA rating by Career360 and 3STAR rating by career connection for India's best engineering college in April 2016. Ranked 10th in A++ category, 8th in Academic excellence, 10th in Industry Interface, 8th in Infrastructure and 9th in South Zone by Silicon India B-School survey 2018.

Vision

To emerge as a leader among the top institutions in the field of technical education.

Mission

Produce smart technocrats with empirical knowledge who can surmount the global challenges.

Create a diverse, fully-engaged, learner-centric campus environment to provide quality education to the students.

Maintain mutually beneficial partnerships with our alumni, industry and professional associations.

Quality Policy

We, at M/s. M.Kumarasamy College of Engineering are committed to the Society in making our Students to live a purpose as responsible citizens with Ethical Values through provision of Quality Technical Education and continually improve to become a World Class Technological University.

ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the year 2009 with an intake of 60 students. The department is supported by teaching staff members of varied experience and specialisation. Our teaching faculties are members of various professional bodies such as IV, IE, IEEE and ISTE. All laboratories in the department are well furnished with the state-of-art equipment and software. The Department functions with the dual inputs of Industry and reputed academic bodies in the state.

The Department actively promotes curriculum development activity by updating existing courses, developing new courses and preparing resource material for teaching. It undertakes industrial consultancy works as a part of its interaction with industry and also organizes seminars/symposia for professional interaction. The department is also very active in conducting conferences, workshops, short term seminars etc. The department has been constantly involved in a range of consultancy projects. Visits to industries, construction sites and environmental field visits are arranged regularly to impart technical education to the students more effectively.

Vision

To continue to excel national and international recognition through the impact of civil engineering knowledge of our students and alumni to build better human society.

Mission

To produce smart civil engineers with basic knowledge on science and engineering to compete the global challenges.

To make the department to excel in the thrust areas of structural engineering and environmental engineering research.

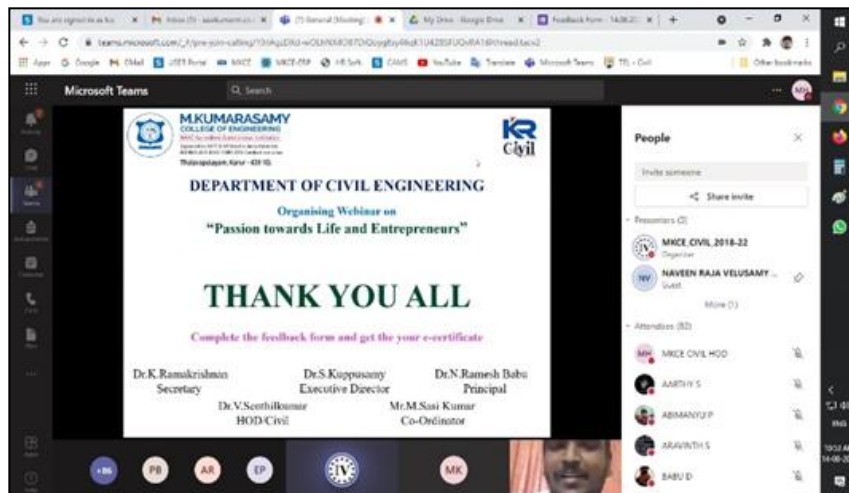
To work with the society to identify the problems faced and providing solutions through consultancy services.

To create, disseminate and integrate knowledge of engineering in the minds of fresh graduates to face the future technological challenges.


PROGRAMS ORGANIZED

S. No	Date	Program	Resource person	Faculty Co-ordinator
1	14.08.2021	Webinar on “PASSION TOWARDS LIFE AND ENTREPRENEURS”	NAVEENRAJA VELUSAMY ALUMINI BATCH (2015-19)	Mr.M.Sasi kumar
2	28.08.2021	ONLINE WORKSHOP ON “CONSTRUCTION PLANNING AND MANAGEMENT”	V.KAILASH	Mr.M.Kanitha
3	15.09.2021	“TECH TALK ON CAREER DEVELOPMENT”	Er.SHARMILA MURUGAN VICE PRESIDENT KRISHNAGIRI CIVIL ENGINEER ASSOCIATION	Mr.R.Dineshkumar
4	25.09.2021	WORKSHOP ON “INTELLECTUAL PROPERTY RIGHTS”	Dr. BALAJI DEVARAJAN HEAD-CIPR, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE.	Mr.R.Vetturayasudharsan
5	27.10.2021	WORKSHOP ON “APPRAISAL OF MATERIALS & ENERGY REPRESENTATION USING BIM”	Ms.S.ISWARYA Sr.ENGINEER CUSTOMER CARE CADD CENTRE, KARUR	Mr.S.Ramkumar Mr.P.Mukesh Ms.M.Sandhiya


PROGRAM IMAGES



Sasi Kumar M is presenting



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DEPARTMENT OF CIVIL ENGINEERING

Online Workshop on
"Construction Planning and Management"

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Dr.S.Kuppusamy
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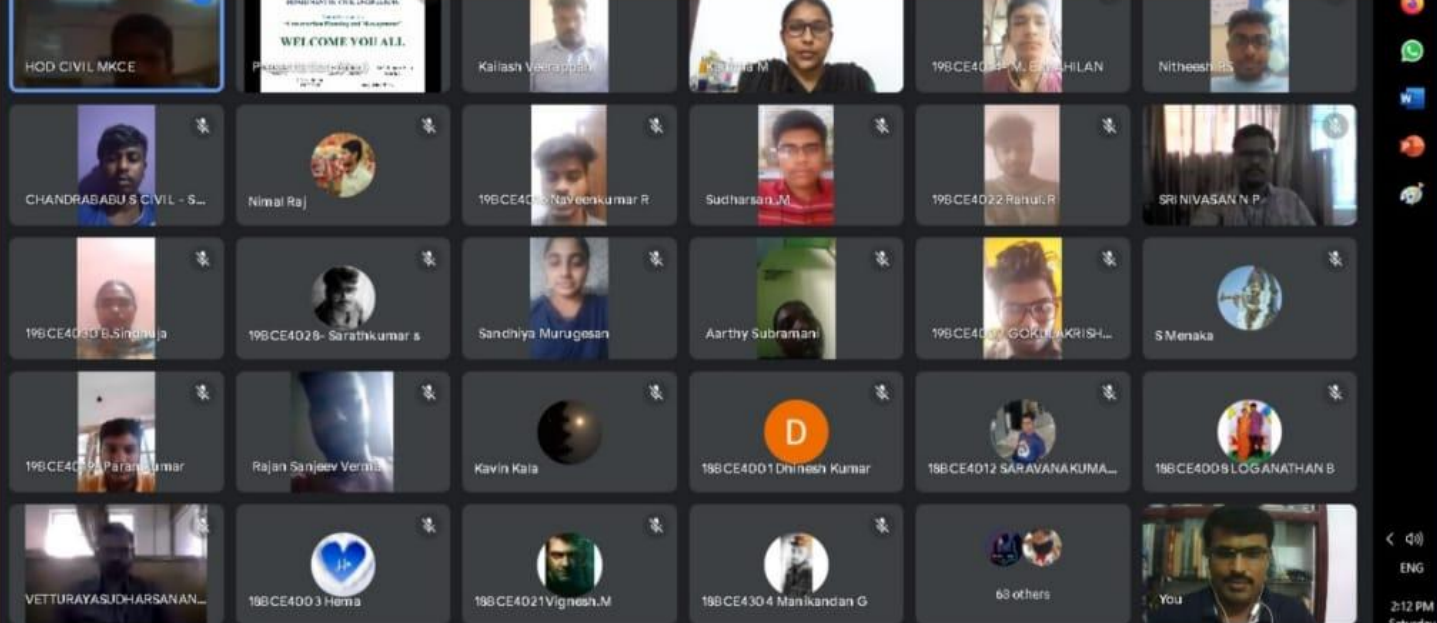
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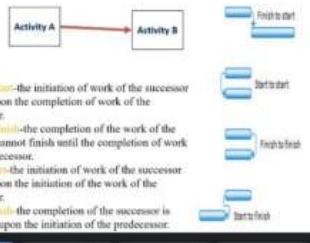
2:12 PM | nxg-dwyo-wau



2:12 PM | Saturday 28-Aug-21

status:navaseed is presenting

relationships between activities : Logical Relationship



- **Finish-to-start**-the initiation of work of the successor depends upon the completion of work of the predecessor.
- **Finish-to-finish**-the completion of the work of the successor cannot finish until the completion of work of the predecessor.
- **Start-to-start**-the initiation of work of the successor depends upon the initiation of the work of the predecessor.
- **Start-to-finish**-the completion of the successor is dependent upon the initiation of the predecessor.

Kalish Venkatesh is presenting

**INTRODUCTION
CONSTRUCTION MANAGEMENT**

PREPARED BY
KALISH VENKATACHALAM BE.MBA

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING

Organizing
"ALUMNI INTERACTION PROGRAM"

Speaker: Er.C.Naveen kumar
 NK Bamboo Construction, Karur.

Date: 26.02.2021
 Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil

Venue: M1002
 Dr.S.Kuppusamy Executive Director
 Dr.N.Ramesh Babu Principal
 Mr.N.P.Srinivasan Co-ordinator

Time: 10:40 am
 Dr.N.Ramesh Babu Principal
 Mr.N.P.Srinivasan Co-ordinator

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING & UltraTech Cement

Organizing
Pre-Employment Training

Speakers:
 Er.S.B.Dhinakaran Technical Service Manager Ultra Tech Cement Ltd, Erode
 Er.N.Sanjay Kumar Assistant Technical Service Manager Ultra Tech Cement Ltd, Erode

Event Date: 25.03.21 & 26.03.21
 Venue : Microsoft Teams: <https://bit.ly/2NOQUJy>

Time: 10.00 Am - 1.00 Pm

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD Civil

Dr.S.Kuppusamy Executive Director
 Mr.A.Rangaraj & Mr.P.Makesh Co-Ordinator

Dr.N.Ramesh Babu Principal
 Dr.N.Ramesh Babu Principal

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING

Organising
 a webinar on
"4 Letter code to become a successful Entrepreneur"

Speaker
Mr.A.C.Rajalingam,
 Industry Principal, Frost & Sullivan,
 Malaysia.

"10-04-2021& 11.00 am to 12.00 pm"
 Venue: google meet-<https://meet.google.com/orm-pfso-spq>

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil

Dr.S.Kuppusamy Executive Director
 Ms.M.Kanitha,AP/Civil Co-Ordinator

Dr.N.Ramesh Babu Principal

REC Kanitha M is presenting

Meeting details

REC Nila Dharshini and 28 more 11:50 AM You



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DEPARTMENT OF CIVIL ENGINEERING

Organising
Guest Lecture on
"Geotechnical Engineering –An Insight"
 By
Mr.U.UMANATH,
 Geotechnical Engineering,(PhD Scholar),
 NIT,Trichy.

Event Date: 30.04.2021 **Time: 03.00Pm – 4.30 Pm**
Venue : Microsoft Teams: [shorturl.at/inB04](#)

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil
 Dr.S.Kuppasamy Executive Director
 Mr.R.Vetturayasudharsanan Co-Ordinator
 Dr.N.Ramesh Babu Principal

1.7 SOIL COMPACTION
 Compaction is the most common and important method of soil improvement. The distribution of soil by the application of mechanical energy to increase soil compaction. In this process, the air voids are removed, void ratio is reduced and the dry density of soil is increased. The compaction results in increased strength, stiffness, stability and impermeability of soils. The

Figure 1.1 Block Diagram - Three Phase System (Partially saturated soil)
 Water content, w is defined as the ratio between weight of water and weight of solids. It can also be taken as the ratio of mass of water to mass of solids.
 $w = \frac{W_w}{W_s} = \frac{M_w}{M_s} \times 100\%$ ($M > 10$ is not appear direct)
 Water content is usually expressed in %. But when it is used for calculations fraction must be used.

FACULTY JOURNAL PUBLICATION

S.NO.	NAME OF THE AUTHOR	TITLE OF THE PAPER	NAME OF THE JOURNAL	JOURNAL TYPE
1	Balamurugan Panneerselvam	Integration of multi criteria decision analysis and GIS for evaluating the site suitability for aquaculture in southern coastal region, India	Marine Pollution Bulletin	SCIE
2	Balamurugan Panneerselvam	Effectiveness of potassium ferrate (VI) as a green agent in the treatment and disinfection of carwash wastewater	Environmental Science and Pollution Research	SCIE
3	P. Balamurugan	Assessment of inverse fluidized bed reactor on the treatment efficiency of distillery spent wash water	International Journal of Environmental Science and Technology	SCIE
4	Balamurugan Panneerselvam	Identifying influencing groundwater parameter on human health associate with irrigation indices using the Automatic Linear Model (ALM) in a semi-arid region in India	Environmental Research	SCIE
5	Balamurugan Panneerselvam	Influence of Elevated Temperature and Pressure on Treatment of Landfill Leachate by Potassium Ferrate(VI)	Water, Air, & Soil Pollution	SCIE
6	Balamurugan Panneerselvam	Effects of Dam Construction in the Wang River on Sediment Regimes in the Chao Phraya River Basin	Water (Switzerland)	SCIE

7	Balaji G	Performance Assessment on bamboo reinforced concrete beams	Innovative Infrastructure Solutions	Scopus
8	Balamurugan Panneerselvam	Prediction of irrigation groundwater quality parameters using ANN, LSTM and MLR models	Environmental Science and Pollution Research	SCIE
9	Balamurugan Panneerselvam	Delineation of groundwater potential zones for sustainable development and planning using analytical hierarchy process (AHP), and MIF techniques	Applied Water Science	SCIE
10	S.Ramkumar	Shear Behaviour of Fiber Reinforced Concrete Beams Using Steel and Polypropylene Fiber	Materials Research Forum LLC	Scopus
11	S.Ramkumar	Structural Health Monitoring of Infrastructures using Sensors as Smart Materials– Review and Perspective	Materials Research Forum LLC	Scopus
12	V. Senthilkumar	Exclusion of Chromium(VI) Ion in Grueling Activated Carbon Fabricated from Manilkara zapota Tree Wood by Adsorption: Optimization by Response Surface Methodology	Journal of Nanomaterials	SCIE

13	R. Dineshkumar	Relationship between Concrete and Chloride Penetration	International Journal of Emerging Trends in Science and Technology	EBSCO, i-scholar database
14	S.Ramkumar	A review paper on soil stabiliation by using waste products	International Journal of Emerging Trends in Science and Technology	EBSCO, i-scholar database
15	Mukesh Panneerselvam	Biosorption of Malachite Green from Aqueous Phase by Tamarind Fruit Shells Using FBR	Advances in Materials Science and Engineering	SCIE
16	Kanitha Mani	Comparative Analysis of Agro Waste Material Solid Biomass Briquette for Environmental Sustainability	Advances in Materials Science and Engineering	SCIE
17	Senthilkumar Veerasamy	Adsorption of Chromium Ions from Aqueous Solutions by Synthesized Nanoparticles	Journal of Nanomaterials	SCIE
18	Senthilkumar Veerasamy	Synthesis and Enhanced Photocatalytic Activity of Zinc Oxide-Based Nanoparticles and Its Antibacterial Activity	Journal of Nanomaterials	SCIE
19	M.Sandhiya	Performance analysis of solar evaporation for treating coconut husk retting water	Desalination and Water Treatment	SCIE

20	R.Dineshkumar	Study on paver blocks using waste plastics and sugarcane bagasse ash	Materials Today: Proceedings	Scopus
21	P. Mukesh	Study of structural bonding strength with tyre rubber instead of coarse	Materials Today: Proceedings	Scopus
22	P. Mukesh	Experimental study on solid waste management in slaughter house	Materials Today: Proceedings	Scopus
23	S.Ramkumar	Analytical study on the assessment of groundwater quality inThirumanamedu village, Trichy district	Materials Today: Proceedings	Scopus
24	P. Mukesh	Correlation, Regression Analysis, and Spatial Distribution Mapping of WQI for an Urban Lake in Noyyal River Basin in the Textile Capital of India	Advances in Materials Science and Engineering	SCIE
25	R.Vetturayasudharsanan	Study on Performance of Infilled Wall in an RC-Framed Structure Using a Reinforcing Band	Advances in Materials Science and Engineering	SCIE
26	S.Ramkumar	Maintenance Methodologies Embraced for Railroad Systems: A Review	Advances in Materials Science and Engineering	SCIE

27	Senthilkumar Veerasamy	Monitoring of Corrosion Level in Nanocomposite Reinforced Concrete Specimens Using Zirconium Oxide Potential Sensor	Iranian Journal of Science and Technology, Transactions of Civil Engineering	SCIE
28	Senthilkumar Veerasamy	Treatment of Tanning Effluent Using Seaweeds and Reduction of Environmental Contamination	Journal of Chemistry	SCIE
29	Subhasri Devarajan	Effect of higher-order interactions on synchronization of neuron models with electromagnetic induction	Applied Mathematics and Computation	SCIE
30	P.Mukesh	Experimentation on the impact of partial replacement of cement with glass powder in mortar mixture	Materials Today: Proceedings	Scopus

FACULTY CONFERENCE PUBLICATION

S.No	Name of the teacher	Title of the paper	Name of the conference
1	S.Ramkumar	A Research on Partial Replacement of Fine Aggregate by Waste Foundry Sand	National Conference on Sustainable Materials and Smart Practices
2	R.Dineshkumar	Application Of Sugarcane Bagasse Ash And Waste Plastic In Paver Block – A Review	AIP Conference Proceedings / Kongunadu College of Engineering and Technology
3	R.Dineshkumar	Review on Corrosion Assessment Study Using Half Cell Potentiometer	AIP Conference Proceedings / Kongunadu College of Engineering and Technology
4	M.Sandhiya	Recycling Of Waste Paper And Treatment Of Wastewater Using Organic Filters-A Review	AIP Conference Proceedings (WoS & Scopus) /Kongunadu College of Engineering and Technology
6	P.Mukesh	Design Of Pipe Rack Structures	AIP Conference Proceedings / M.Kumarasamy College of Engineering
7	V Senthilkumar	Manufacturing of Fly Ash bricks using waste sugarcane bagasse and rice husk ash	National conference on “Advancements in Sustainable Materials, Design and Applications”

8	M.Kanitha	Factors Interventing Ergonomic Implementation At Small Scale Industries	National conference on “Advancements in Sustainable Materials, Design and Applications”
9	R.Vetturayasudharsanan	Exploratory Study On Flexural Behaviour Hybrid Fiber Reinforced Concrete Beams SubjectedTo Cyclic Loading	National conference on “Advancements in Sustainable Materials, Design and Applications”

FACULTY PARTICIPATION

S.No.	Name of Faculty	Name of the program	Title of the programe	Name of the College	Date
1	Mr.M.SASIKUMAR	Webinar	Fibre Reinforced Concrete - and its Mechanism	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	23.06.2021
2		Quiz	Quiz on Civil Engineering	Dr.N.G.P. Institute of Technology	24.06.2021
3		FDP	Sustainable Construction Materials (ATAL)	Rajasthan Technical University	05.07.2021 to 09.07.2021
4		Webinar	Employment Opportunities for Diploma and Graduate Civil Engineers	Dr.N.G.P. Institute of Technology	21.07.2021
5		Webinar	Green Building Tegnologies - A Mith or Reality	Sri Sai Ram Engineering College	07.08.2021
6		Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
7		Webinar	Influence of Concrete Micro-structure on durability properties	Dr.N.G.P. Institute of Technology	23.08.2021
8		Online Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	23.08.2021
9		Webinar	Awareness about E-Waste Management	M.Kumarasamy College of Engineering	04.09.2021
10	Mr.S.RAMKUMAR	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	12.07.2021 - 17.07.2021
11		Webinar	Structural Analysis & Member design within Autodesk Revit	Easwari Engineering College	30.07.2021

12		Webinar	Nanotechnology & It's Applications	Gopalan College of Engineering and Management	02.08.2021
13		Webinar	Impact of Climate Change on Water Resources	St.Joseph's College of Engineering	07.08.2021
14		Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
15		Online Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.08.2021
16		FDP	Analysis, Design and Testing of Towers	NITTE Meenakshi Institute of Technology, Bangalore	13.09.2021 - 17.09.2021
17		International Webinar	Architecture, Civil and Earthquake Engineering	Mahendra Engineering College	23.09.2021 - 24.09.2021
18		Online Workshop	Appraisal of Material and Energy	M.Kumarasamy College of Engineering	27.10.2021
19		Mr. P.MUKESH	FDP	Geotechnical Engineering Practice	NITTTR, Chennai
20	FDP		Sustainable Construction Materials and Techniques	NITTTR, Chennai	13.12.2021 to 17.12.2021
21	FDP		Recent Advancement and Emerging Technologies in the area of Education and research	IIMT College of Management, Noida	03.02.2022 to 09.02.2022
22	FDP		Advancement of Technology in Civil Engineering	Anand International College of Engineering, Jaipur	28.02.2022 to 05.03.2022
23	STP		Environmental Sustainability and Research Ethics	Avinashilingam Institute for Home Science and Higher Education	05.04.2022 to 07.04.2022

24	Mr.N.P.SRINIVASAN	Webinar	Erection of High-Rise Building	Paavai Engineering College	05.08.2021
25		Online Workshop	Intellectual Property Rights	MKCE	25.09.2021
26		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
27		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021 - 22.12.2021
28	Mr. R.VETTURAYA SUDHARSANAN	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	12.07.2021 - 17.07.2021
29		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
30		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021 - 22.12.2021
31		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	03.03.2022
32	Mrs.M.KANITHA	FDP	Sustainable Construction Materials (ATAL)	Rajasthan Technical University	05.07.2021 to 09.07.2021
33		Webinar	Employment Opportunities for Diploma and Graduate Civil Engineers	Dr.N.G.P. Institute of Technology	21.07.2021
34		Webinar	Green Building Technologies - A Myth or Reality	Sri Sai Ram Engineering College	07.08.2021
35	Mr.BALAJI G	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	GMR Institute of Technology
36		Webinar	Nanotechnology & It's Applications	Gopalan College of Engineering and Management	02.08.2021
37		Webinar	Impact of Climate Change on Water	St.Joseph's College	07.08.2021

38		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
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41		Online Workshop	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
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43		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021-22.12.2021
44		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.9.21 to 1.10.21
45		International Conference	Study on paver block using Waste Plastic and Sugarcane Bagasse Ash	SRM Institute of Science and Technology	24.03.22 - 26.03.22
46	Ms. SANDHIYA M	Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.8.2021
47		Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.8.2021
48		Workshop	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.9.21
49		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.9.21 to 1.10.21
50		International Webinar	Architecture, Civil and Earthquake Engineering	Mahendra Engineering College	23.09.2021 - 24.09.2021

51		Online Workshop	Appraisal of Material and Energy	M.Kumarasamy College of Engineering	27.10.21
52		FDP	Geotechnical Engineering Practice	NITTTR	22.11.21 to 26.11.21
53		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
54	Dr.V.SENTHILKUMAR	Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
55		Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.08.2021
56		Online course	Renewable energy and green building entrepreneurship	Duke University,coursera	17.10.21 to 31.10.21
57		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
58		FDP	Soil Mechanics	Bannari Amman Institute of Technology	03.01.2021 to 08.01.2021





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NEWSLETTER

OF

CIVIL ENGINEERING DEPARTMENT

VOLUME-VII ISSUE -II

JUNE 2022



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MKCE AT GLANCE

M. Kumarasamy College of Engineering was established in the year 2000. The aim of the institution is to enrich the knowledge of student's community with the latest technologies and development in various fields of Engineering. We have rigorous quality measures to make sure that no compromise is made in the quality of teaching. Our performance has put as a benchmark for other institution and we have developed the popular name among the students to a fraternity. The institution is one among the best self-financing engineering college imparting high quality education in Tamilnadu. The college has been elevated to the autonomous in the year of 2011. Our college achieved AAA rating by Career 360 and 3STAR rating by career connection for Indian's best engineering college in April 2016 Ranked among top 50 engineering institution in India by career links in the year 2015 Ranked 18th in India and 2nd in Tamilnadu among the outstanding engineering colleges of excellence competition success Review, May 2015 Ranked 4th position among the top 10 institute scores for placement and new horizon college of engineering in India by Data Quest, May 2015. Our college achieved AAA rating by Career360 and 3STAR rating by career connection for India's best engineering college in April 2016. Ranked 10th in A++ category, 8th in Academic excellence, 10th in Industry Interface, 8th in Infrastructure and 9th in South Zone by Silicon India B-School survey 2018.



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 Thiruvapdipuram, Karur - 639 713.

KR Civil

Seminars At Dhaka International University

13-02-2022

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By
Ms. M.KANITHA, M.E., (PhD),
 Assistant Professor



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International Seminars at Dhaka International University

13 February (Sunday), 2022 Time: 2:30 – 4:00 PM (BD. Time)

www.fb.com/diu.net.bd

Host Department: Civil Engineering

Keynote Speaker: Mrs. M Kanithamani, Department of Civil Engineering, M.Kumarasamy College of Engineering, Karur-639 713, India

Keynote Speaker: Dr. Anwar Zahid, Director, South West Valley, Bangladesh Education Development Fund (BDEF) and Deputy Secy. of Human Resource Management, Dept. of Law and Governance, Dhaka University

Organized by: Institutional Quality Assurance Cell, Dhaka International University

Concluding Ceremony Hosts:

- Dr. Shamsul Hossain Chowdhury, Dhaka International University
- Prof. Dr. Goush Chandra Saha, Dhaka International University
- Dr. S. Quader Fatah, Dhaka International University

Host: Mr. Pranta Roy, Lecturer in Dept. of Civil Engg., Dhaka International University

Zoom



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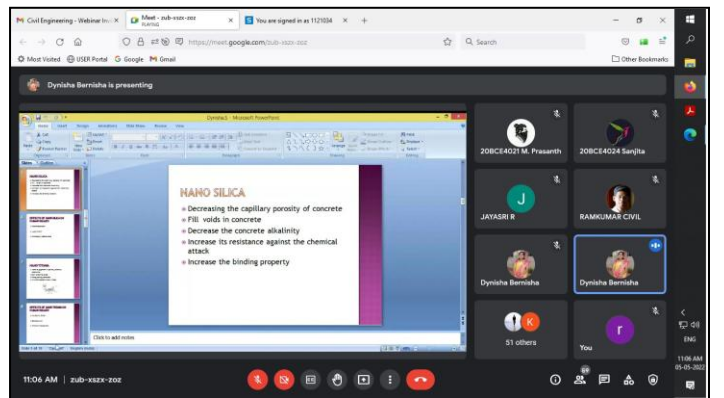
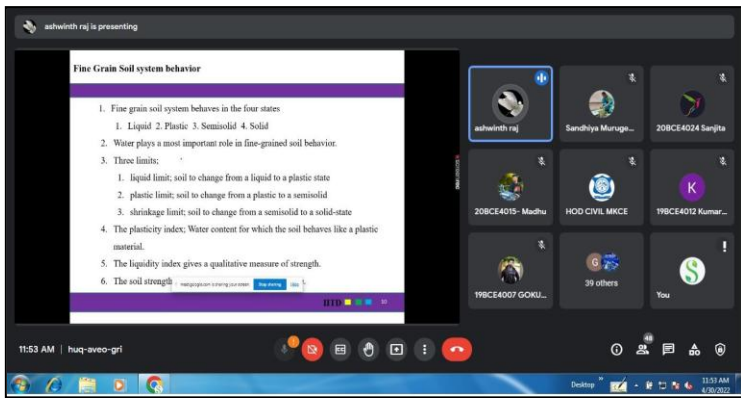
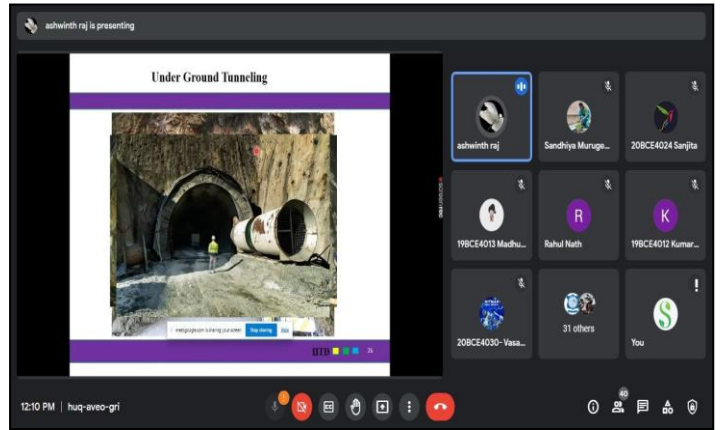
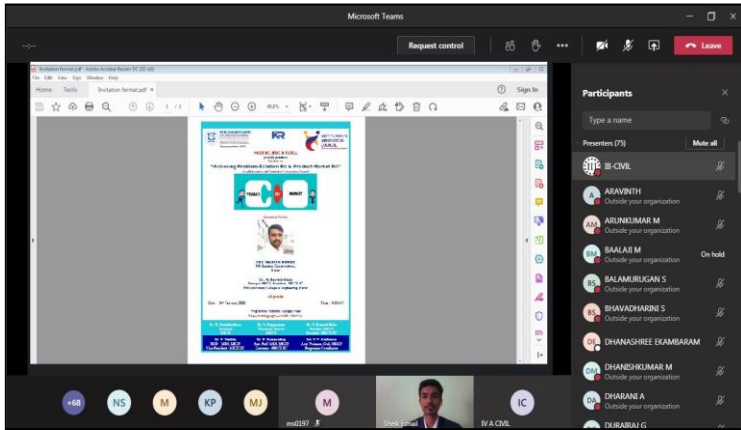


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2	Mr.N.P.SRINIVASAN	FDP	Curriculum Design, Assessment, Evaluation and Innovative Teaching and Learning To Achieve Outcome Based Education	Sri Krishna College of Technology, Coimbatore
3	Mr.P.MUKESH	FDP	Recent Advancement and Emerging Technologies in Education and research	IIMT College of Management, Noida
		FDP	Advancement of Technology in Civil Engineering	Anand International College of Engineering, Jaipur
		FDP	Smart Cities for Sustainable Development	ATAL Academy
		STP	Environmental Sustainability and Research Ethics	Avinashi lingam Institute for Home Science and Higher Education for women
		INTERNATIONAL CONFERENCE	Solid Waste Management in Slaughterhouse	Adhi College of Engineering and Technology
		INTERNATIONAL CONFERENCE	Experimental Investigation of Partial Replacement of GEOGRID in Reinforced Beam	Kongunadu College of Engineering and technology.
		INTERNATIONAL CONFERENCE	Experimental Investigation of Partial Replacement of GEOGRID and Nylon in Reinforced Beam	Bannari Amman Institute of Technology
4	Mr.R.DINESHKUMAR	International Conference	Study on paver block using Waste Plastic and Sugarcane Bagasse Ash	SRM Institute of Science and Technology



CIVIL ENGINEERING



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NAAC Accredited Autonomous Institution

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NEWSLETTER

OF

CIVIL ENGINEERING DEPARTMENT

VOLUME-VII ISSUE -II

JUNE 2022



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MKCE AT GLANCE

M. Kumarasamy College of Engineering was established in the year 2000. The aim of the institution is to enrich the knowledge of student's community with the latest technologies and development in various fields of Engineering. We have rigorous quality measures to make sure that no compromise is made in the quality of teaching. Our performance has put as a benchmark for other institution and we have developed the popular name among the students to a fraternity. The institution is one among the best self-financing engineering college imparting high quality education in Tamilnadu. The college has been elevated to the autonomous in the year of 2011. Our college achieved AAA rating by Career 360 and 3STAR rating by career connection for Indian's best engineering college in April 2016 Ranked among top 50 engineering institution in India by career links in the year 2015 Ranked 18th in India and 2nd in Tamilnadu among the outstanding engineering colleges of excellence competition success Review, May 2015 Ranked 4th position among the top 10 institute scores for placement and new horizon college of engineering in India by Data Quest, May 2015. Our college achieved AAA rating by Career360 and 3STAR rating by career connection for India's best engineering college in April 2016. Ranked 10th in A++ category, 8th in Academic excellence, 10th in Industry Interface, 8th in Infrastructure and 9th in South Zone by Silicon India B-School survey 2018.



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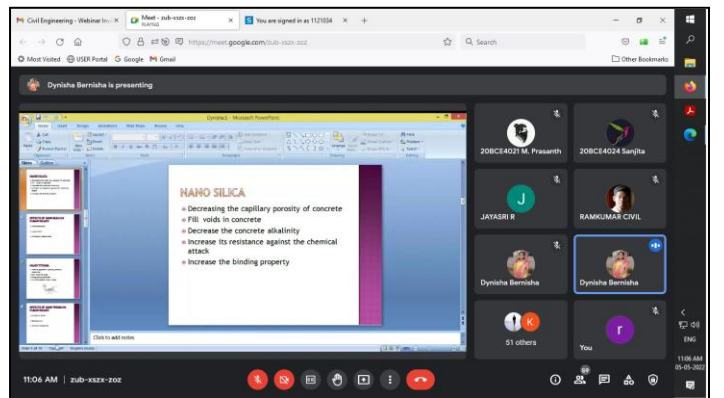
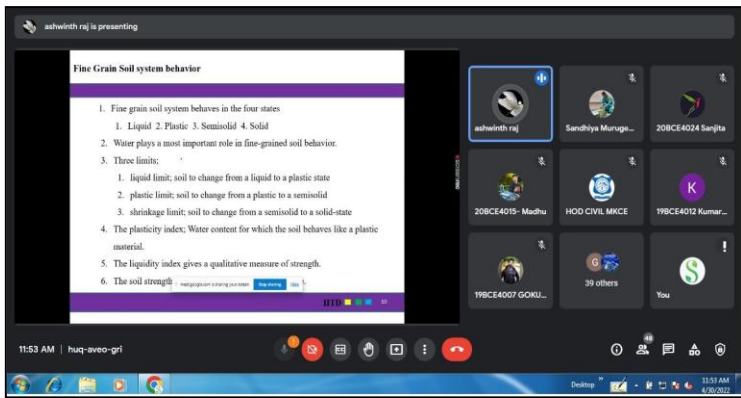
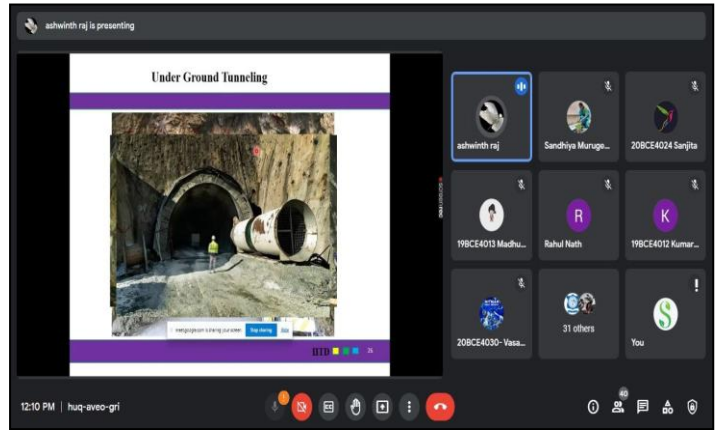
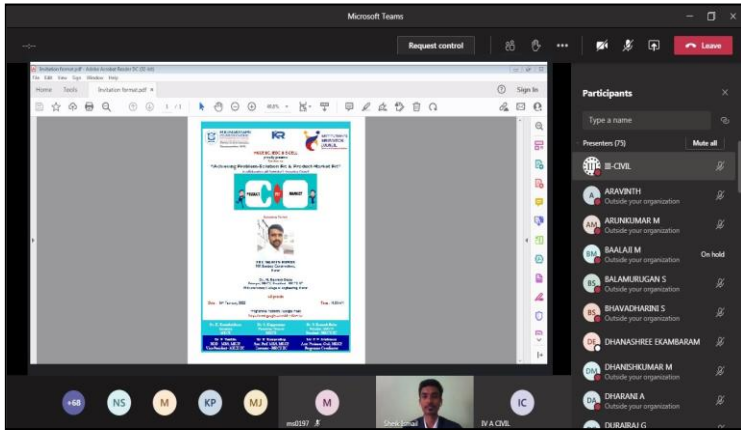


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2	Mr.N.P.SRINIVASAN	FDP	Curriculum Design, Assessment, Evaluation and Innovative Teaching and Learning To Achieve Outcome Based Education	Sri Krishna College of Technology, Coimbatore
3	Mr.P.MUKESH	FDP	Recent Advancement and Emerging Technologies in Education and research	IIMT College of Management, Noida
		FDP	Advancement of Technology in Civil Engineering	Anand International College of Engineering, Jaipur
		FDP	Smart Cities for Sustainable Development	ATAL Academy
		STP	Environmental Sustainability and Research Ethics	Avinashi lingam Institute for Home Science and Higher Education for women
		INTERNATIONAL CONFERENCE	Solid Waste Management in Slaughterhouse	Adhi College of Engineering and Technology
		INTERNATIONAL CONFERENCE	Experimental Investigation of Partial Replacement of GEOGRID in Reinforced Beam	Kongunadu College of Engineering and technology.
		INTERNATIONAL CONFERENCE	Experimental Investigation of Partial Replacement of GEOGRID and Nylon in Reinforced Beam	Bannari Amman Institute of Technology
4	Mr.R.DINESHKUMAR	International Conference	Study on paver block using Waste Plastic and Sugarcane Bagasse Ash	SRM Institute of Science and Technology





**M.KUMARASAMY
COLLEGE OF ENGINEERING**

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Thalavapalayam, Karur-639 113, Tamilnadu.



NEWSLETTER

OF

CIVIL ENGINEERING DEPARTMENT

VOLUME-VII ISSUE -I

DEC 2021



EDITORIAL BOARD

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MKCE AT GLANCE

M. Kumarasamy College of Engineering was established in the year 2000. The aim of the institution is to enrich the knowledge of student's community with the latest technologies and development in various fields of Engineering. We have rigorous quality measures to make sure that no compromise is made in the quality of teaching. Our performance has put as benchmark for other institution and we have developed the popular name among the students to a fraternity. The institution is one among the best self-financing engineering college imparting high quality education in Tamilnadu. The college has been elevated to the autonomous in the year of 2011. Ranked among top 50 engineering institution in India by career links in the year 2015. Ranked 18th in India and 2nd in Tamilnadu among the outstanding engineering colleges of excellence competition success Review, May 2015. Ranked 4th position among the top 10 institute scores for placement and new horizon college of engineering in India by Data Quest, May 2015. Our college achieved AAA rating by Career360 and 3STAR rating by career connection for India's best engineering college in April 2016. Ranked 10th in A++ category, 8th in Academic excellence, 10th in Industry Interface, 8th in Infrastructure and 9th in South Zone by Silicon India B-School survey 2018.

Vision

To emerge as a leader among the top institutions in the field of technical education.

Mission

Produce smart technocrats with empirical knowledge who can surmount the global challenges.

Create a diverse, fully-engaged, learner-centric campus environment to provide quality education to the students.

Maintain mutually beneficial partnerships with our alumni, industry and professional associations.

Quality Policy

We, at M/s. M.Kumarasamy College of Engineering are committed to the Society in making our Students to live a purpose as responsible citizens with Ethical Values through provision of Quality Technical Education and continually improve to become a World Class Technological University.

ABOUT THE DEPARTMENT

The Department of Civil Engineering was established in the year 2009 with an intake of 60 students. The department is supported by teaching staff members of varied experience and specialisation. Our teaching faculties are members of various professional bodies such as IV, IE, IEEE and ISTE. All laboratories in the department are well furnished with the state-of-art equipment and software. The Department functions with the dual inputs of Industry and reputed academic bodies in the state.

The Department actively promotes curriculum development activity by updating existing courses, developing new courses and preparing resource material for teaching. It undertakes industrial consultancy works as a part of its interaction with industry and also organizes seminars/symposia for professional interaction. The department is also very active in conducting conferences, workshops, short term seminars etc. The department has been constantly involved in a range of consultancy projects. Visits to industries, construction sites and environmental field visits are arranged regularly to impart technical education to the students more effectively.

Vision

To continue to excel national and international recognition through the impact of civil engineering knowledge of our students and alumni to build better human society.

Mission

To produce smart civil engineers with basic knowledge on science and engineering to compete the global challenges.

To make the department to excel in the thrust areas of structural engineering and environmental engineering research.

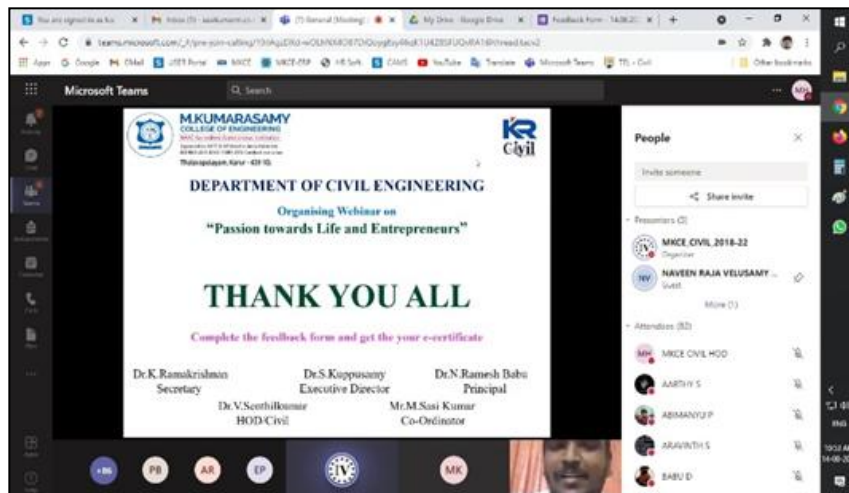
To work with the society to identify the problems faced and providing solutions through consultancy services.

To create, disseminate and integrate knowledge of engineering in the minds of fresh graduates to face the future technological challenges.


PROGRAMS ORGANIZED

S. No	Date	Program	Resource person	Faculty Co-ordinator
1	14.08.2021	Webinar on “PASSION TOWARDS LIFE AND ENTREPRENEURS”	NAVEENRAJA VELUSAMY ALUMINI BATCH (2015-19)	Mr.M.Sasi kumar
2	28.08.2021	ONLINE WORKSHOP ON “CONSTRUCTION PLANNING AND MANAGEMENT”	V.KAILASH	Mr.M.Kanitha
3	15.09.2021	“TECH TALK ON CAREER DEVELOPMENT”	Er.SHARMILA MURUGAN VICE PRESIDENT KRISHNAGIRI CIVIL ENGINEER ASSOCIATION	Mr.R.Dineshkumar
4	25.09.2021	WORKSHOP ON “INTELLECTUAL PROPERTY RIGHTS”	Dr. BALAJI DEVARAJAN HEAD-CIPR, KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY, COIMBATORE.	Mr.R.Vetturayasudharsan
5	27.10.2021	WORKSHOP ON “APPRAISAL OF MATERIALS & ENERGY REPRESENTATION USING BIM”	Ms.S.ISWARYA Sr.ENGINEER CUSTOMER CARE CADD CENTRE, KARUR	Mr.S.Ramkumar Mr.P.Mukesh Ms.M.Sandhiya

PROGRAM IMAGES




Sasi Kumar M is presenting



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Thalassapalayam, Kattur - 638 113.



DEPARTMENT OF CIVIL ENGINEERING

Online Workshop on
"Construction Planning and Management"

WELCOME YOU ALL

Dr.K.Ramakrishnan
Secretary

Dr.S.Kuppusamy
Executive Director

Dr.N.Ramesh Babu
Principal

Dr.V.Senthilkumar
HOD Civil

Organizing Team

status:navaseed is presenting

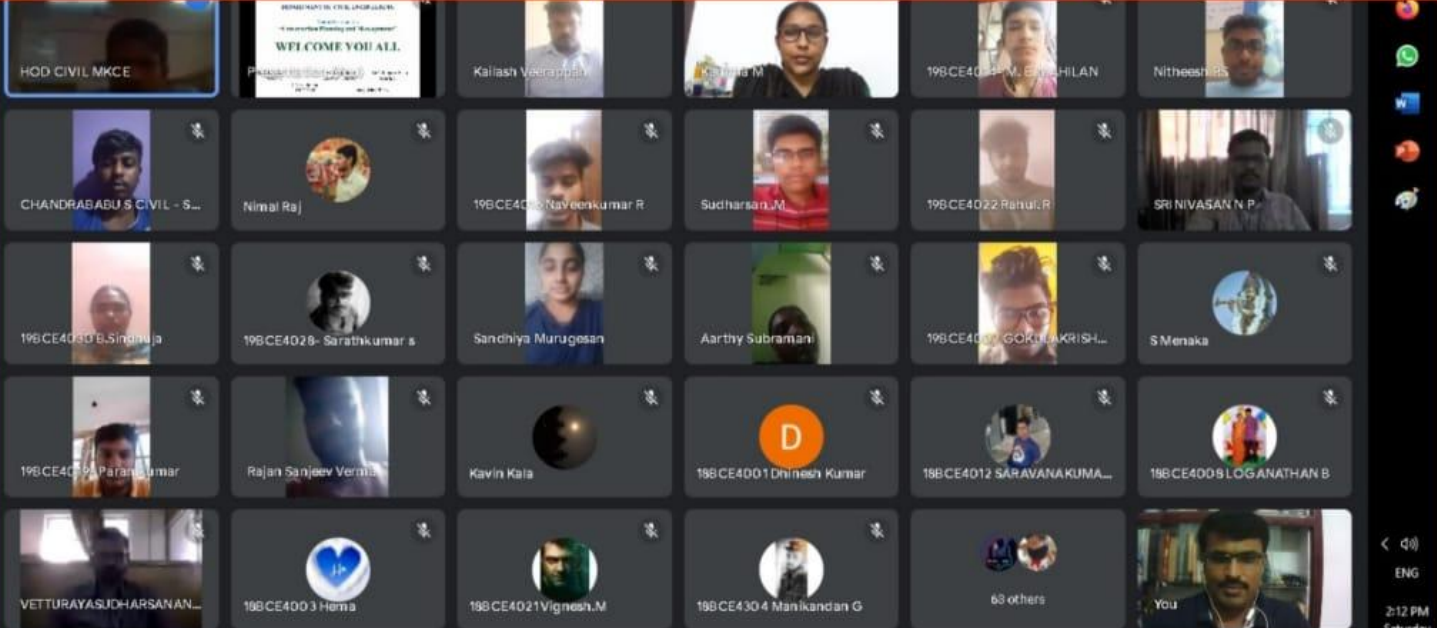
OPEN SOURCE SOFTWARE FOR PROJECT MANAGEMENT

Introduction to

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MSHABUL HAMEED, M.E. (P.S.D.)
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Department of Civil & Environmental Eng.
National Institute of Technical Teachers' Training and Research
Chennai.
Email: hshabulhameed@gmail.com

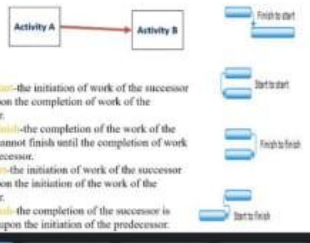
2:12 PM | nxg-dwyo-wau



2:12 PM | Saturday 28-Aug-21

status:navaseed is presenting

relationships between activities : Logical Relationship



- **Finish-to-start**-the initiation of work of the successor depends upon the completion of work of the predecessor.
- **Finish-to-finish**-the completion of the work of the successor cannot finish until the completion of work of the predecessor.
- **Start-to-start**-the initiation of work of the successor depends upon the initiation of the work of the predecessor.
- **Start-to-finish**-the completion of the successor is dependent upon the initiation of the predecessor.

Kalish Venkatesh is presenting

INTRODUCTION

CONSTRUCTION MANAGEMENT

PREPARED BY
KALASH VENKATACHALAM BE.MBA

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING

Organizing
"ALUMNI INTERACTION PROGRAM"

Speaker: Er.C.Naveen kumar
 NK Bamboo Construction, Karur.

Date: 26.02.2021
 Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil

Venue: M1002
 Dr.S.Kuppusamy Executive Director
 Dr.N.Ramesh Babu Principal
 Mr.N.P.Srinivasan Co-ordinator

Time: 10:40 am
 Dr.N.Ramesh Babu Principal
 Mr.N.P.Srinivasan Co-ordinator

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING & UltraTech Cement

Organizing
Pre-Employment Training

Speakers:
 Er.S.B.Dhinakaran Technical Service Manager Ultra Tech Cement Ltd, Erode
 Er.N.Sanjay Kumar Assistant Technical Service Manager Ultra Tech Cement Ltd, Erode

Event Date: 25.03.21 & 26.03.21
 Venue : Microsoft Teams: <https://bit.ly/2NOQUJy>

Time: 10.00 Am - 1.00 Pm

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD Civil

Dr.S.Kuppusamy Executive Director
 Mr.A.Rangaraj & Mr.P.Makesh Co-Ordinator

Dr.N.Ramesh Babu Principal
 Dr.N.Ramesh Babu Principal

MKUMARASAMY COLLEGE OF ENGINEERING
 DEPARTMENT OF CIVIL ENGINEERING

Organising
 a webinar on
"4 Letter code to become a successful Entrepreneur"

Speaker
Mr.A.C.Rajalingam,
 Industry Principal, Frost & Sullivan,
 Malaysia.

"10-04-2021& 11.00 am to 12.00 pm"
 Venue: google meet-<https://meet.google.com/orm-pfso-spq>

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil

Dr.S.Kuppusamy Executive Director
 Ms.M.Kanitha,AP/Civil Co-Ordinator

Dr.N.Ramesh Babu Principal

REC Kanitha M is presenting

Meeting details

REC Nila Dharshini and 28 more 11:50 AM You



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DEPARTMENT OF CIVIL ENGINEERING

Organising
Guest Lecture on
"Geotechnical Engineering –An Insight"
 By
Mr.U.UMANATH,
Geotechnical Engineering,(PhD Scholar),
NIT,Trichy.

Event Date: 30.04.2021 **Time: 03.00Pm – 4.30 Pm**
Venue : Microsoft Teams: [shorturl.at/inB04](#)

Dr.K.Ramakrishnan Secretary
 Dr.M.Loganathan HOD/Civil
 Dr.S.Kuppasamy Executive Director
 Mr.R.Vetturayasudharsanan Co-Ordinator
 Dr.N.Ramesh Babu Principal

1.1 SOIL COMPACTION
 Compaction is the most common and important method of soil improvement. The distribution of soil by the application of mechanical energy to increase soil compaction. In this process, the air voids are removed, void ratio is reduced and the dry density of soil is increased. The compaction results in increased strength, stiffness, stability and impermeability of soils. The

SOIL MECHANICS
UNIT - I SOIL CLASSIFICATION AND COMPACTION
1.1 SOIL SOIL MECHANICS AND SOIL ENGINEERING
 For a civil engineer, soils come in all naturally occurring, relatively unconsolidated earth material - organic or inorganic in character - that lies above the bedrock.
 Terrific defined Soil Mechanics as follows:
Soil Mechanics is the application of the laws of mechanics and hydraulics to engineering problems dealing with saturated and other consolidated accumulations of solid particles produced by the mechanical and chemical disintegration of rocks irrespective of whether or not they contain an admixture of organic constituents.
Soil Mechanics is defined as the science dealing with the application of the principles of mechanics for the understanding of the behaviour of rock masses.
Soil Engineering is a broader term which encompasses not only soil mechanics but also geology, structural engineering, soil dynamics and many other disciplines which are often essential to design practical solutions to problems of soil.
Geotechnical Engineering is relatively a new term and includes soil mechanics, rock mechanics and engineering soil rock engineering.
1.2 GENERAL TYPES OF SOILS

Figure 1.1 Block Diagram - Three Phase System (Partially saturated soil)
 Water content, w , is defined as the ratio between weight of water and weight of solids. It can also be taken as the ratio of mass of water to mass of solids.
 $w = \frac{W_w}{W_s} = \frac{M_w}{M_s} \times 100\%$ ($M > B$ for upper limit)
 Water content is usually expressed in %. But when it is used for calculations fraction must be used.

FACULTY JOURNAL PUBLICATION

S.NO.	NAME OF THE AUTHOR	TITLE OF THE PAPER	NAME OF THE JOURNAL	JOURNAL TYPE
1	Balamurugan Panneerselvam	Integration of multi criteria decision analysis and GIS for evaluating the site suitability for aquaculture in southern coastal region, India	Marine Pollution Bulletin	SCIE
2	Balamurugan Panneerselvam	Effectiveness of potassium ferrate (VI) as a green agent in the treatment and disinfection of carwash wastewater	Environmental Science and Pollution Research	SCIE
3	P. Balamurugan	Assessment of inverse fluidized bed reactor on the treatment efficiency of distillery spent wash water	International Journal of Environmental Science and Technology	SCIE
4	Balamurugan Panneerselvam	Identifying influencing groundwater parameter on humanhealth associate with irrigation indices using the AutomaticLinear Model (ALM) in a semi-arid region in India	Environmental Research	SCIE
5	Balamurugan Panneerselvam	Influence of Elevated Temperature and Pressure on Treatment of Landfill Leachate by Potassium Ferrate(VI)	Water, Air, & Soil Pollution	SCIE
6	Balamurugan Panneerselvam	Effects of Dam Construction in theWang River on Sediment Regimes in the Chao Phraya River Basin	Water (Switzerland)	SCIE

7	Balaji G	Performance Assessment on bamboo reinforced concrete beams	Innovative Infrastructure Solutions	Scopus
8	Balamurugan Panneerselvam	Prediction of irrigation groundwater quality parameters using ANN, LSTM and MLR models	Environmental Science and Pollution Research	SCIE
9	Balamurugan Panneerselvam	Delineation of groundwater potential zones for sustainable development and planning using analytical hierarchy process (AHP), and MIF techniques	Applied Water Science	SCIE
10	S.Ramkumar	Shear Behaviour of Fiber Reinforced Concrete Beams Using Steel and Polypropylene Fiber	Materials Research Forum LLC	Scopus
11	S.Ramkumar	Structural Health Monitoring of Infrastructures using Sensors as Smart Materials– Review and Perspective	Materials Research Forum LLC	Scopus
12	V. Senthilkumar	Exclusion of Chromium(VI) Ion in Grueling Activated Carbon Fabricated from Manilkara zapota Tree Wood by Adsorption: Optimization by Response Surface Methodology	Journal of Nanomaterials	SCIE

13	R. Dineshkumar	Relationship between Concrete and Chloride Penetration	International Journal of Emerging Trends in Science and Technology	EBSCO, i-scholar database
14	S.Ramkumar	A review paper on soil stabiliation by using waste products	International Journal of Emerging Trends in Science and Technology	EBSCO, i-scholar database
15	Mukesh Panneerselvam	Biosorption of Malachite Green from Aqueous Phase by Tamarind Fruit Shells Using FBR	Advances in Materials Science and Engineering	SCIE
16	Kanitha Mani	Comparative Analysis of Agro Waste Material Solid Biomass Briquette for Environmental Sustainability	Advances in Materials Science and Engineering	SCIE
17	Senthilkumar Veerasamy	Adsorption of Chromium Ions from Aqueous Solutions by Synthesized Nanoparticles	Journal of Nanomaterials	SCIE
18	Senthilkumar Veerasamy	Synthesis and Enhanced Photocatalytic Activity of Zinc Oxide-Based Nanoparticles and Its Antibacterial Activity	Journal of Nanomaterials	SCIE
19	M.Sandhiya	Performance analysis of solar evaporation for treating coconut husk retting water	Desalination and Water Treatment	SCIE

20	R.Dineshkumar	Study on paver blocks using waste plastics and sugarcane bagasse ash	Materials Today: Proceedings	Scopus
21	P. Mukesh	Study of structural bonding strength with tyre rubber instead of coarse	Materials Today: Proceedings	Scopus
22	P. Mukesh	Experimental study on solid waste management in slaughter house	Materials Today: Proceedings	Scopus
23	S.Ramkumar	Analytical study on the assessment of groundwater quality inThirumanamedu village, Trichy district	Materials Today: Proceedings	Scopus
24	P. Mukesh	Correlation, Regression Analysis, and Spatial Distribution Mapping of WQI for an Urban Lake in Noyyal River Basin in the Textile Capital of India	Advances in Materials Science and Engineering	SCIE
25	R.Vetturayasudharsanan	Study on Performance of Infilled Wall in an RC-Framed Structure Using a Reinforcing Band	Advances in Materials Science and Engineering	SCIE
26	S.Ramkumar	Maintenance Methodologies Embraced for Railroad Systems: A Review	Advances in Materials Science and Engineering	SCIE

27	Senthilkumar Veerasamy	Monitoring of Corrosion Level in Nanocomposite Reinforced Concrete Specimens Using Zirconium Oxide Potential Sensor	Iranian Journal of Science and Technology, Transactions of Civil Engineering	SCIE
28	Senthilkumar Veerasamy	Treatment of Tanning Effluent Using Seaweeds and Reduction of Environmental Contamination	Journal of Chemistry	SCIE
29	Subhasri Devarajan	Effect of higher-order interactions on synchronization of neuron models with electromagnetic induction	Applied Mathematics and Computation	SCIE
30	P.Mukesh	Experimentation on the impact of partial replacement of cement with glass powder in mortar mixture	Materials Today: Proceedings	Scopus

FACULTY CONFERENCE PUBLICATION

S.No	Name of the teacher	Title of the paper	Name of the conference
1	S.Ramkumar	A Research on Partial Replacement of Fine Aggregate by Waste Foundry Sand	National Conference on Sustainable Materials and Smart Practices
2	R.Dineshkumar	Application Of Sugarcane Bagasse Ash And Waste Plastic In Paver Block – A Review	AIP Conference Proceedings / Kongunadu College of Engineering and Technology
3	R.Dineshkumar	Review on Corrosion Assessment Study Using Half Cell Potentiometer	AIP Conference Proceedings / Kongunadu College of Engineering and Technology
4	M.Sandhiya	Recycling Of Waste Paper And Treatment Of Wastewater Using Organic Filters-A Review	AIP Conference Proceedings (WoS & Scopus) /Kongunadu College of Engineering and Technology
6	P.Mukesh	Design Of Pipe Rack Structures	AIP Conference Proceedings / M.Kumarasamy College of Engineering
7	V Senthilkumar	Manufacturing of Fly Ash bricks using waste sugarcane bagasse and rice husk ash	National conference on “Advancements in Sustainable Materials, Design and Applications”

8	M.Kanitha	Factors Interventing Ergonomic Implementation At Small Scale Industries	National conference on “Advancements in Sustainable Materials, Design and Applications”
9	R.Vetturayasudharsanan	Exploratory Study On Flexural Behaviour Hybrid Fiber Reinforced Concrete Beams SubjectedTo Cyclic Loading	National conference on “Advancements in Sustainable Materials, Design and Applications”

FACULTY PARTICIPATION

S.No.	Name of Faculty	Name of the program	Title of the programe	Name of the College	Date
1	Mr.M.SASIKUMAR	Webinar	Fibre Reinforced Concrete - and its Mechanism	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	23.06.2021
2		Quiz	Quiz on Civil Engineering	Dr.N.G.P. Institute of Technology	24.06.2021
3		FDP	Sustainable Construction Materials (ATAL)	Rajasthan Technical University	05.07.2021 to 09.07.2021
4		Webinar	Employment Opportunities for Diploma and Graduate Civil Engineers	Dr.N.G.P. Institute of Technology	21.07.2021
5		Webinar	Green Building Tegnologies - A Mith or Reality	Sri Sai Ram Engineering College	07.08.2021
6		Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
7		Webinar	Influence of Concrete Micro-structure on durability properties	Dr.N.G.P. Institute of Technology	23.08.2021
8		Online Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	23.08.2021
9		Webinar	Awareness about E-Waste Management	M.Kumarasamy College of Engineering	04.09.2021
10	Mr.S.RAMKUMAR	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	12.07.2021 - 17.07.2021
11		Webinar	Structural Analysis & Member design within Autodesk Revit	Easwari Engineering College	30.07.2021

12		Webinar	Nanotechnology & It's Applications	Gopalan College of Engineering and Management	02.08.2021
13		Webinar	Impact of Climate Change on Water Resources	St.Joseph's College of Engineering	07.08.2021
14		Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
15		Online Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.08.2021
16		FDP	Analysis, Design and Testing of Towers	NITTE Meenakshi Institute of Technology, Bangalore	13.09.2021 - 17.09.2021
17		International Webinar	Architecture, Civil and Earthquake Engineering	Mahendra Engineering College	23.09.2021 - 24.09.2021
18		Online Workshop	Appraisal of Material and Energy	M.Kumarasamy College of Engineering	27.10.2021
19		FDP	Geotechnical Engineering Practice	NITTTR, Chennai	22.11.2021 to 26.11.2021
20	FDP	Sustainable Construction Materials and Techniques	NITTTR, Chennai	13.12.2021 to 17.12.2021	
21	Mr. P.MUKESH	FDP	Recent Advancement and Emerging Technologies in the area of Education and research	IIMT College of Management, Noida	03.02.2022 to 09.02.2022
22		FDP	Advancement of Technology in Civil Engineering	Anand International College of Engineering, Jaipur	28.02.2022 to 05.03.2022
23		STP	Environmental Sustainability and Research Ethics	Avinashilingam Institute for Home Science and Higher Education	05.04.2022 to 07.04.2022

24	Mr.N.P.SRINIVASAN	Webinar	Erection of High-Rise Building	Paavai Engineering College	05.08.2021
25		Online Workshop	Intellectual Property Rights	MKCE	25.09.2021
26		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
27		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021 - 22.12.2021
28	Mr. R.VETTURAYA SUDHARSANAN	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	12.07.2021 - 17.07.2021
29		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
30		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021 - 22.12.2021
31		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	03.03.2022
32	Mrs.M.KANITHA	FDP	Sustainable Construction Materials (ATAL)	Rajasthan Technical University	05.07.2021 to 09.07.2021
33		Webinar	Employment Opportunities for Diploma and Graduate Civil Engineers	Dr.N.G.P. Institute of Technology	21.07.2021
34		Webinar	Green Building Technologies - A Myth or Reality	Sri Sai Ram Engineering College	07.08.2021
35	Mr.BALAJI G	FDP	Recent Advancements in Civil Engineering - Phase II	GMR Institute of Technology	GMR Institute of Technology
36		Webinar	Nanotechnology & It's Applications	Gopalan College of Engineering and Management	02.08.2021
37		Webinar	Impact of Climate Change on Water	St.Joseph's College	07.08.2021

38		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.09.2021 - 01.10.2021
39		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021 - 22.12.2021
40		Online Workshop	Appraisal of Material and Energy	M.Kumarasamy College of Engineering	27.10.2021
41		Online Workshop	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
42	Mr.R.DINESHKUMAR	FDP	Analysis, Design and Testing of Towers	NITTE Meenakshi Institute of Technology, Bangalore	13.09.2021 - 17.09.2021
43		FDP	Hybrid Learning for Education 5.0	Excel Engineering College	16.12.2021-22.12.2021
44		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.9.21 to 1.10.21
45		International Conference	Study on paver block using Waste Plastic and Sugarcane Bagasse Ash	SRM Institute of Science and Technology	24.03.22 - 26.03.22
46	Ms. SANDHIYA M	Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.8.2021
47		Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.8.2021
48		Workshop	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.9.21
49		FDP	Bridge Engineering	KPR Institute of Engineering and Technology	27.9.21 to 1.10.21
50		International Webinar	Architecture, Civil and Earthquake Engineering	Mahendra Engineering College	23.09.2021 - 24.09.2021

51		Online Workshop	Appraisal of Material and Energy	M.Kumarasamy College of Engineering	27.10.21
52		FDP	Geotechnical Engineering Practice	NITTTR	22.11.21 to 26.11.21
53		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
54	Dr.V.SENTHILKUMAR	Webinar	Passion towards Life and Entrepreneurs	M.Kumarasamy College of Engineering	14.08.2021
55		Workshop	Construction Planning and Management	M.Kumarasamy College of Engineering	28.08.2021
56		Online course	Renewable energy and green building entrepreneurship	Duke University,coursera	17.10.21 to 31.10.21
57		IPR WORKSHOP	Intellectual Property Rights	M.Kumarasamy College of Engineering	25.09.2021
58		FDP	Soil Mechanics	Bannari Amman Institute of Technology	03.01.2021 to 08.01.2021





DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEMS

ASSOCIATION OFFICE BEARERS MEETING MINUTES

Date: 10.03.2022

AGENDA:

- Association Inception
- Association activities
- Association Calendar

MINUTES OF THE MEETING:

An Association Office Bearers meeting was conducted on 11.03.2022 from 10.25 AM to 10.40 AM in CSBS HoD cabin. The meeting comprises of HOD, Association Faculty In-charge, Association President, Vice President, Secretary, Joint Secretary, Treasurer and Active volunteers. The following points were raised and discussed in the meeting:

- ❖ Association Inception is scheduled on 14/03/2022.
- ❖ Association LOGO Launch is planned during the inception.
- ❖ Association Office Bearers are asked to plan for Association activities for the academic year 2021-2022(Even) in the following categories:
 - Programming Practice
 - Brain Storming
 - Code Debugging
 - Debate
 - Aptitude Training
 - Resume Preparation
 - Extempore
 - Talent Show
 - Paper Presentation
 - Other Event(s) if any.
- ❖ Association Office bearers are asked to prepare the Association Calendar for this academic year 2021-2022(Even) for conducting the various events planned

Members Present :

HEAD OF THE DEPARTMENT :
FACULTY INCHARGE :
PRESIDENT :

Dr.R.RAJA GURU
Mrs.V.BANUPRIYA
VISHESHA A S (II CSBS)

20/3/2022
AS Vishesh A S

VICE PRESIDENT
SECRETARY
JOINT SECRETARY
TREASURER
ACTIVE VOLUNTEERS

- TRIKSHA K C (I CSBS) (On - duty)
ATCHAYA R (II CSBS) *Abhayathirakumar*
SANGEETH RAJ P S (I CSBS) *P. Sangeetha*
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FROM THE EDITORS

we are glad to release our first edition of our department magazine. Hope all of you like this. Our magazine contains our yearly achievements of the academic year 2021 - 2022. For the upcoming years we are going to release many editions.

Thank you



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Thank you

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VOLUME-I ISSUE 2



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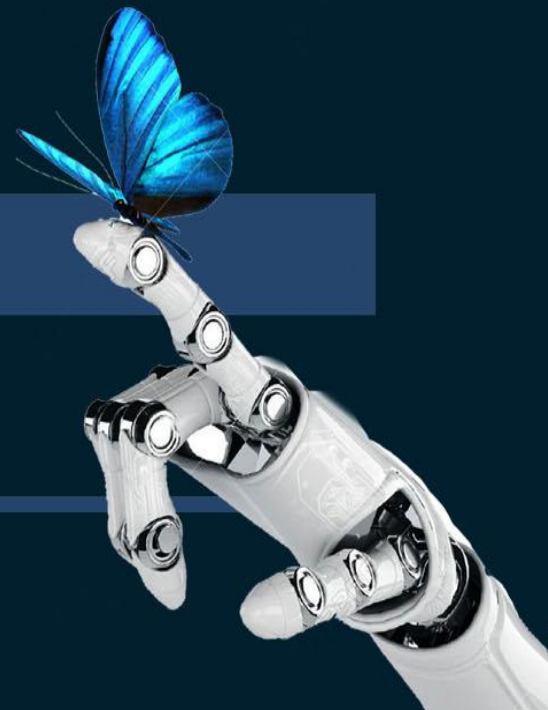


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IEEE COMSOC-(2021-2022)

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TAMILMATHI VM

STUDENTS PROJECT PUBLICATIONS

Proceeding of the 10th International Conference on Intelligent Computing and Control Systems (ICICCS 2022)
DOI: 10.1109/ICICCS52160.2022.9881822

A DEEP CONVOLUTION NEURAL NETWORK FRAMEWORK FOR DETECTING DEPRESSION

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Abstract – Depression is common among young adults and it is a leading cause of disability. The aim of this paper is to detect depression using a deep convolutional neural network (CNN). The proposed system uses a deep CNN architecture to detect depression from facial images. The system is trained on a dataset of 10,000 images of people with and without depression. The system achieves an accuracy of 95% on the test set. The system is implemented on a Raspberry Pi 4 and is able to detect depression in real-time. The system is a significant step towards the early detection and treatment of depression. The system is a significant step towards the early detection and treatment of depression. The system is a significant step towards the early detection and treatment of depression.

Index Terms – ECG, neural network, deep learning, classification, using eye tracking, hardware setup.

1. INTRODUCTION
Many of us have experienced the feeling of being sad or down for days, but sometimes, it can last for weeks or even months. This is called depression. It is a common mental health condition that affects millions of people worldwide. Depression is a complex condition that can be caused by a variety of factors, including genetics, brain chemistry, and life events. It is important to seek help if you are experiencing symptoms of depression, as it can have serious consequences if left untreated.

PREDICTION OF AFFECTED LEAF OF THE PLANT USING MACHINE LEARNING

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Abstract – The prediction of affected leaf of the plant is a challenging task. This paper proposes a machine learning approach for predicting affected leaves. The proposed system uses a deep CNN architecture to predict affected leaves from images of plant leaves. The system is trained on a dataset of 10,000 images of plant leaves with and without disease. The system achieves an accuracy of 90% on the test set. The system is implemented on a Raspberry Pi 4 and is able to predict affected leaves in real-time. The system is a significant step towards the early detection and treatment of plant diseases. The system is a significant step towards the early detection and treatment of plant diseases. The system is a significant step towards the early detection and treatment of plant diseases.

Index Terms – ECG, neural network, deep learning, classification, using eye tracking, hardware setup.

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DETECTION AND CLASSIFICATION OF DENTAL DEFECT USING CNN

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Abstract – Dental defects are common among people and it is a leading cause of disability. The aim of this paper is to detect dental defects using a deep convolutional neural network (CNN). The proposed system uses a deep CNN architecture to detect dental defects from images of teeth. The system is trained on a dataset of 10,000 images of teeth with and without dental defects. The system achieves an accuracy of 95% on the test set. The system is implemented on a Raspberry Pi 4 and is able to detect dental defects in real-time. The system is a significant step towards the early detection and treatment of dental defects. The system is a significant step towards the early detection and treatment of dental defects. The system is a significant step towards the early detection and treatment of dental defects.

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MEASUREMENT ANALYSIS OF THE NEGATIVE CAPACITANCE FIELD EFFECT TRANSISTOR

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Abstract – The aim of this paper is to analyze the characteristics of the negative capacitance field effect transistor (NC-FET). The proposed system uses a deep CNN architecture to analyze the characteristics of NC-FET. The system is trained on a dataset of 10,000 images of NC-FET. The system achieves an accuracy of 95% on the test set. The system is implemented on a Raspberry Pi 4 and is able to analyze the characteristics of NC-FET in real-time. The system is a significant step towards the early detection and treatment of NC-FET. The system is a significant step towards the early detection and treatment of NC-FET. The system is a significant step towards the early detection and treatment of NC-FET.

Index Terms – ECG, neural network, deep learning, classification, using eye tracking, hardware setup.

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Students from the Department of Electronics and Communication Engineering has published their project ideas as paper publications. Students 25+ project teams submitted papers of various topics to popular magazines and published on their magazines

PATTEN PUBLICATIONS

(12) PATENT APPLICATION PUBLICATION
10/INDIA
(12) Date of Filing of Application: 13/08/2022
(14) Title of the invention: DATA MINING AND DEEP LEARNING TO REDUCE INDOOR U.S. PERSONS AND RANGES

(21) Application No.: 2022414133 A
(22) Date of Filing of Application: 13/08/2022

(54) Title of the invention: DATA MINING AND DEEP LEARNING TO REDUCE INDOOR U.S. PERSONS AND RANGES

(71) Inventor(s)
GANDHARVANI, CHANDRASEKHAR,
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(72) Inventor(s)
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GANDHARVANI, CHANDRASEKHAR

(73) Assignee(s)
NA

(51) International Classification
G06F16/00
G06N3/00

(52) Inventive Step
Yes

(56) Documents cited in the written description
NA

(57) Abstract
The present invention relates to a system and method for data mining and deep learning to reduce indoor U.S. persons and ranges. The system and method are designed to analyze large amounts of data and identify patterns and trends. The system and method are designed to be used in a variety of applications, including data analysis, machine learning, and artificial intelligence. The system and method are designed to be used in a variety of applications, including data analysis, machine learning, and artificial intelligence.

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KARNAT, INDIA

CHALLENGE FILE
No. 2022/2022

THE INVENTOR(S)
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GANDHARVANI, CHANDRASEKHAR,
GANDHARVANI, CHANDRASEKHAR

THE APPLICANT(S)
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GANDHARVANI, CHANDRASEKHAR,
GANDHARVANI, CHANDRASEKHAR

Accepted a sum of Rs. 1000/- (Rupees One Thousand Only) through
Date: 13/08/2022

AMBIENT COMMUNICATION
INNOVATION PATENT

Patent Number: 2021/105262

The Commissioner of Patents has granted the above patent on 07 October 2021, and certifies that the inventor/partners have been registered in the Register of Patents.

Name and address of applicant(s)
M. KARMAYY COLLEGE OF ENGINEERING OF KARNAT, TAMILNADU, PUNJAGUR, TAMIL NADU 631113 India

Name of invention(s)
A DEVICE TO MONITOR VIBRATION, SOUND AND WATCHING TIME MASTER OF DISPLAY DEVICES

NOTE: This Innovation Patent (patent) has been published online and can be freely examined by the Commissioner of Patents and Controller of Patents. No fee is levied on the inventor or applicant.

(12) PATENT APPLICATION PUBLICATION
10/INDIA
(12) Date of Filing of Application: 27/06/2022
(14) Title of the invention: SYSTEM AND METHOD FOR MANAGING AND MONITORING RESOURCES USING AN ENHANCED AMBIENT VIBRATION

(21) Application No.: 202244808 A
(22) Date of Filing of Application: 27/06/2022

(54) Title of the invention: SYSTEM AND METHOD FOR MANAGING AND MONITORING RESOURCES USING AN ENHANCED AMBIENT VIBRATION

(71) Inventor(s)
S. JAGADEESH, M. CHANDRASEKHAR, M. RAMESH BABU, A. ABHIRAM

(72) Inventor(s)
S. JAGADEESH, M. CHANDRASEKHAR, M. RAMESH BABU, A. ABHIRAM

(73) Assignee(s)
NA

(51) International Classification
G06F16/00
G06N3/00

(52) Inventive Step
Yes

(56) Documents cited in the written description
NA

(57) Abstract
The present invention relates to a system and method for managing and monitoring resources using an enhanced ambient vibration. The system and method are designed to analyze large amounts of data and identify patterns and trends. The system and method are designed to be used in a variety of applications, including data analysis, machine learning, and artificial intelligence. The system and method are designed to be used in a variety of applications, including data analysis, machine learning, and artificial intelligence.

The Patent Office Journal No. 21/2022 (Date: 27/06/2022) 3234

Date: 27th June of October 2021
Commissioner of Patents

The Patent Office Journal No. 05/2022 (Date: 04/02/2022) 6406

Department of Electronics and Communication Engineering students done various projects on their academic years, many of them Finished a pattern with their project ideas from MKCE Incubation centre which located inside the campus. During 2021-2022 academic year more than 45 patents published.

SKILL SET FROM OUR STUDENTS

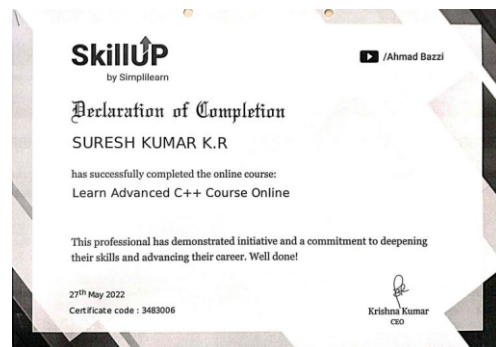
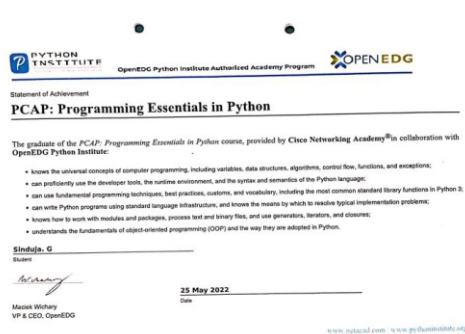


BINCOIN

B. Abiraja, S. Ashwin,
R. Bhuvanesh, A. Boopathi
(2020-2024)

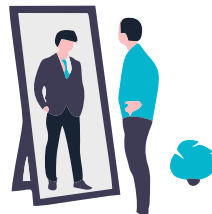
The main objective of the project is to design a Bincoin which will help in keeping our environment clean and also eco friendly. We are inspired from Swachh Bharat Mission. Nowadays technologies are getting smarter day-by-day so, as to clean the environment we are designing a smart dustbin by using Arduino. This smart dustbin management system is built on the microcontroller. If dustbin is not maintained then these can cause an unhealthy environment and can cause pollute that affect our health. Here, this project came with Top Reasons and the Advantages of using the Waste Bins Properly. In this proposed technology we have designed a advanced smart dustbin using some major components such as ARDUINO UNO, along with QR scanner, servomotor, battery jumper wire. After all hardware and software connected. Now Smart Dustbin program will be executed. Dustbin lid will open when someone scan their respective QR code which consists of their reference id and upi details near at some range then wait for a while to put garbage inside the smartbin and closes within a programmed interval of time. then he person who put the garbage in our bincoin, account will be credited accordingly.

Online Courses



Department of Electronics and Communication Engineering had conducted a MOOC Course on Cisco Networking Academy Courses in the academic year (2021-2022) ODD & EVEN Semester. In this courses, 419 students of ECE department have participated, got good grade and certificates of the same.

Students Placement Records



Placement 2022

Students from The Department of Electronics and Communication Engineering has placed in reputed Multinational Companies in both IT and Core field. Many of them has got placed in companies like "TCS, CTS, Infosys, Wipro, Virtusa, Hexaware, Kaar. and in Core filed our students has placed in companies like siennaecad, Tessolve etc.



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ECE (2021-2025)



S.VARSHAYINI
ECE (2020-2024)



P.PRIYANKADEVI
ECE (2019-2023)



SNEHA A
ECE (2019-2023)

ARTICLE

IMAGE STEGANOGRAPHY USING PYTHON

- Arulmozhi B
ECE(2020-2024)

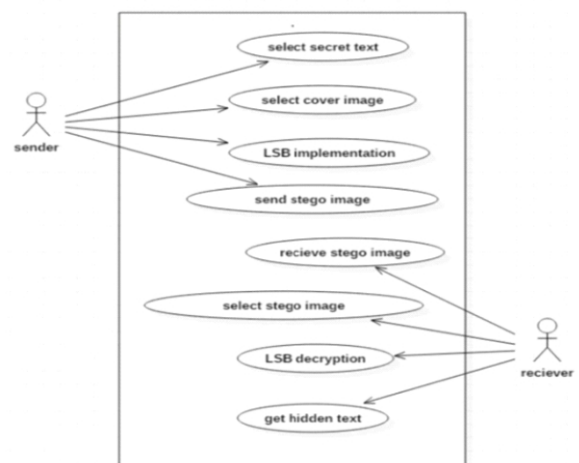
DESCRIPTION:

Image Steganography is the process of hiding text / audio / video in a image file in such a way that someone cannot know about the presence of audio or other hiding contents in the image. This will increase the security against different malicious attacks. The purpose of steganography is to maintain secret communication between two parties. It works with PNG Stego image due to its losses compression. In this image steganography software , we can hide the data using LSB embed techniques. This approach of info-hiding technique has recently become important in a number of application areas. The scope of this project is to limit the access and provide better security during message transmission. In this project the proposed approach finds suitable algorithm for embedding the data in an image.

FUNCTIONAL REQUIREMENTS:

Functional requirements are the requirements that that define specific behavior or function of the system .

- **Login:** Login function will authenticate the sender if username and password are correct Otherwise it will exit the system.
- **Secret Text Message File:** In this file you will have to write secret message to hide or you can select any text file of secret message.
- **Cover Image:** Cover Image is the image is to be selected in which secret text message can be hidden.
- **Stego Encryption** LSB implementation is performed on cover image to hide secret text message by replacing bits of cover image by the bits of message.
- **Sender** In this Sender send this stego image file to intended recipient to which he does want to communicate .
- **Receiver** In this receiver receives stegoimage and opens in decryption option for getting hidden text message inside that image.





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Dr.S.Jegadeesan



✦ Extension Activity had handled at Mohanur-21/07/2022





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CONFERENCE ORGANIZED



ECE Research and Development Cell, MKumarasamy College of Engineering (Autonomous), Karur organized a Second National Conference on **SIGNAL PROCESSING AND COMMUNICATION SYSTEMS** on 16.03.2021. Objective of that National Level Interdisciplinary Conference is to facilitate academicians, researchers, industrialists & UG/PG students by presenting cutting edge research issues, Challenges and latest advances in the interdisciplinary field. We invited unpublished research papers, articles and case studies from authors to present and exchange their insights on the recent developments in Engineering and Technology. Topics to be covered domain areas of Signal Processing and Communication Systems and not limited to the connecting research areas. Dr.R.Sakthivel Associate Professor, Department of Micro and Nano Electronics from Vellore Institute of Technology, was invited as chief guest for the inaugural function and he delivered lecture note on modern research perspectives to the participants. We received around 200 papers, from that 154 papers have been selected and presented. About 191 participants are from other state and other district colleges. Finally our belloved principal Dr.N.Ramesh Babu gave the best papers awards to participants from each session during the valedictory function.



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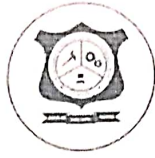
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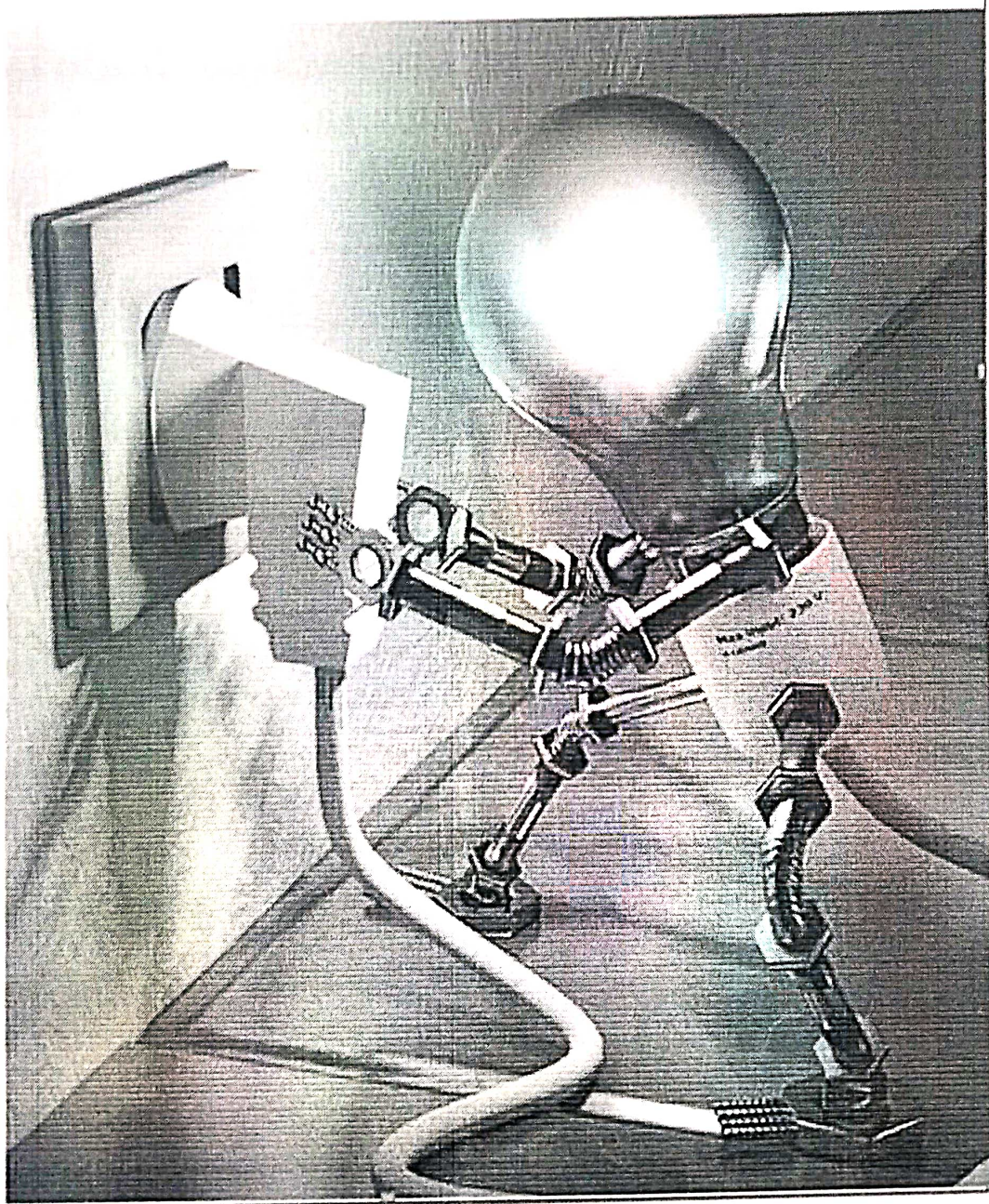
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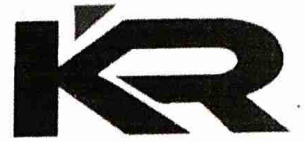
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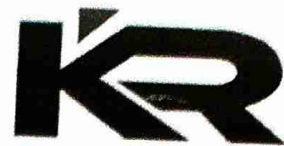

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Action plan for odd semester (2021-22)

Sl.No	Event name	Participant	No of events	Month /year
1	Guest lecturer	Internal	5	Aug/Sep /2021
2	workshop	Internal	1	Nov/Dec/2021
3	Seminar	Internal	3	Sep/Oct2021


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