

SKCET

Buzz



18th to 22nd January 2021



e – Academia Special Issue: 45

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Happy Reading!





HACKATHON ACCOLADES



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CSE | ASEAN - INDIA 2021



Time (IST/SGT)	Workshop/Discussion	Speaker	Profile
11am – 12.30pm/ 1.30pm - 3pm	Product market fit, Value Proposition Canvas, Whole Product Map & Market Analysis	Mr Eric Tan	
12.30pm- 2.30pm/ 3pm - 5pm	Powerpoint Engineering, Effective Collaboration and Communication	Mr Fred Then	
2.30pm – 3.00pm/ 5pm – 5.30pm	Break	-	
3pm – 4pm/ 5.30pm – 6.30pm	Panel Session on 'Insights to the Problem Statements'	Dr Alex Lin & Mr Fred Then	

The nodal agency from Singapore - **NTUitive (Nanyang Technological University, Singapore)** conducted the following sessions for ASEAN and INDIA Hackathon Participants.

- Product market fit/VPC, Whole Product Map and Market Analysis' by Mr.Eric Tan.
- 'Powerpoint Engineering, Effective Collaboration and Communication' by Mr.Fred.
- Panel Session on 'Insights to the Problem Statements' with Dr.Alex Lin and Mr.Fred.

Team Members:

K.M.Keerthi Raajan - III CSE A

J.Harish Shanmugan - III CSE A

S.Parvathy Nathan - III CSE C (TCS)

Mentor: Ms.A.Priya, Assistant Professor, CSE.



STUDENT CERTIFICATIONS



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CIVIL | SKILLUP CERTIFICATION



S.Varunkumar, student of **Second year Civil Engineering** has successfully completed a course titled '**Foundations of Artificial Intelligence**', an industry recommended and validated course aligned to **SSC NASSCOM Foundation AI Curriculum** by **SkillUp Online**.

WRITE IT RIGHT

BESIDE VS BESIDES

It is easy to confuse **beside** and **besides**, but they are not one and the same thing.

BESIDE

- **Beside** is a preposition.
- It means "at the side of" or "next to".

Examples

- He stood **beside** his new car proudly.
- I keep a dictionary **beside** me when I am writing.
- Will you sit **beside** me at dinner?
- The barn **beside** the farmer's house was falling down.

BESIDES =

Besides can be used either a preposition or an adverb.

- As a preposition, it means "in addition to" or "apart from".
- As an adverb, it means "furthermore".

Examples

- What are you working on **besides** the research project?
- There will be four of us for dinner **besides** Malathi.
- She has no relatives **besides** an aged aunt.
- He is my youngest child and I have three others **besides**.



OUTREACH ACTIVITY



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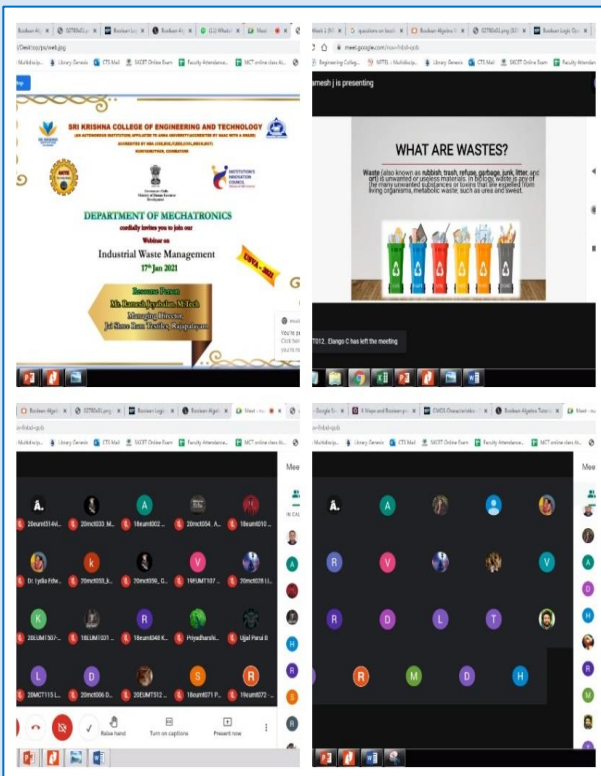
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MCT | OUTREACH ACTIVITY FOR PUBLIC



As a part of USVA activity, students of **MCT** Department conducted Awareness Program on “**Solid Waste Management**” in various places like Saravanapatti, Thudiyalur, Sundarapuram, Kovaipudur,.

MCT | WEBINAR ON INDUSTRIAL WASTE MANAGEMENT



As a part of USVA activity a webinar was organized by the Department of **Mechatronics Engineering** titled ‘**Industrial Waste Management**’ on 17.01.2021. **Mr.Ramesh Jeyabalan**, Managing Director, Jai Shree Ram Textiles, Rajapalayam was the resource person of the session. Pollution caused by various industries and remedies to rectify them were the points discussed.



RESEARCH AND DEVELOPMENT



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R&D | BOOK CHAPTER PUBLICATION - MCT



Recent Challenges in Science, Engineering and Technology
Chapter – 16
TDMA BASED ENERGY EFFICIENT CLUSTER ROUTING APPROACH FOR SENSOR NETWORKS
D. N. A. Natraj¹, Dr. K.B. Gurusomayya², Dr. S. Gopinath³
¹ Assistant Professor, Department of Mechatronics, Sri Krishna College of Engineering and Technology, Coimbatore.
² Assistant Professor, Department of ECE, Sri Ramakrishna Engineering College, Coimbatore.
³ Associate Professor, Department of ECE, Karpagam Institute of Technology, Coimbatore.

Abstract
Balancing the energy consumption and location accuracy is one of the critical tasks in WSN. Energy consumption of sensor nodes is measured in terms of route discovery, packet forwarding and data transmission. In this research work, it is proposed that scheduling based Optimal Energy Clustering Scheme (OCECS) is used to attain the maximum location accuracy and energy efficiency during route maintenance. In the proposed scheme, cluster is formed and TDMA scheduling algorithm is introduced to improve the energy efficiency using stable routes and scheduling table.

Index Terms - TDMA, WSN, Energy efficiency, location accuracy and scheduling algorithm

INTRODUCTION

In past few decades, Wireless Sensor Networks (WSN) plays a vital role in wireless network and growth of WSN rises rapidly. The wider detection range and flexibility was provided effectively due to radio waves and sensor nodes. The real time environment changes are detected by sensor nodes. The data gathering process is done by the sensor nodes and data aggregation is implemented to save the energy. Energy efficiency is the major issue in WSN and the consumption of energy can be measured based on various applications.

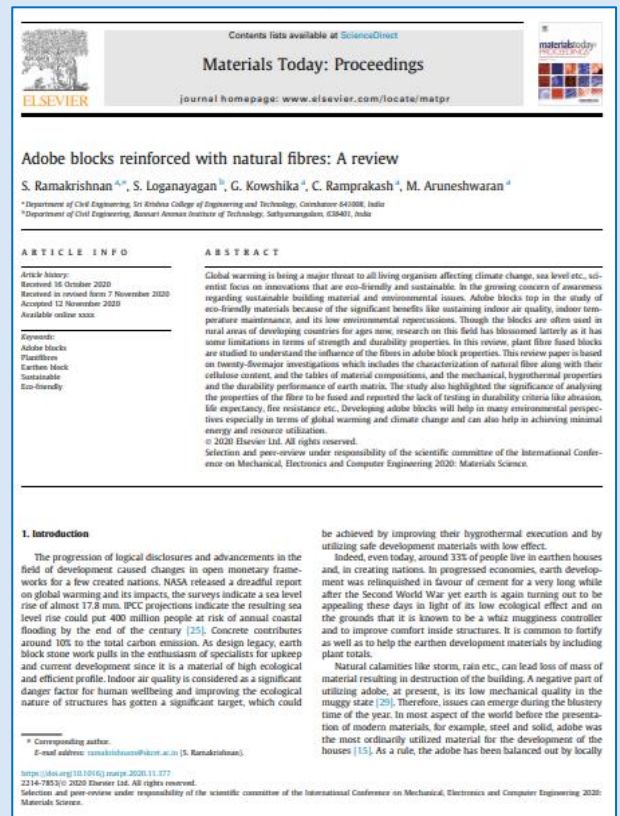
In this research work, cluster is formed with cluster heads which is chosen based on residual energy, distance to sink node and node capacity to increase the network lifetime. In previous work, it is concluded that balancing energy consumption and location accuracy is the biggest task in the sensor network.

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Dr.N.A.Natraj, Assistant Professor of **MCT** has published a Book Chapter entitled “**TDMA based Energy Efficient Cluster Routing Approach for Sensor Networks**” in **Recent Challenges in Science, Engineering and Technology, First Edition-2021, ISBN: 978-81-947388-5-5.**

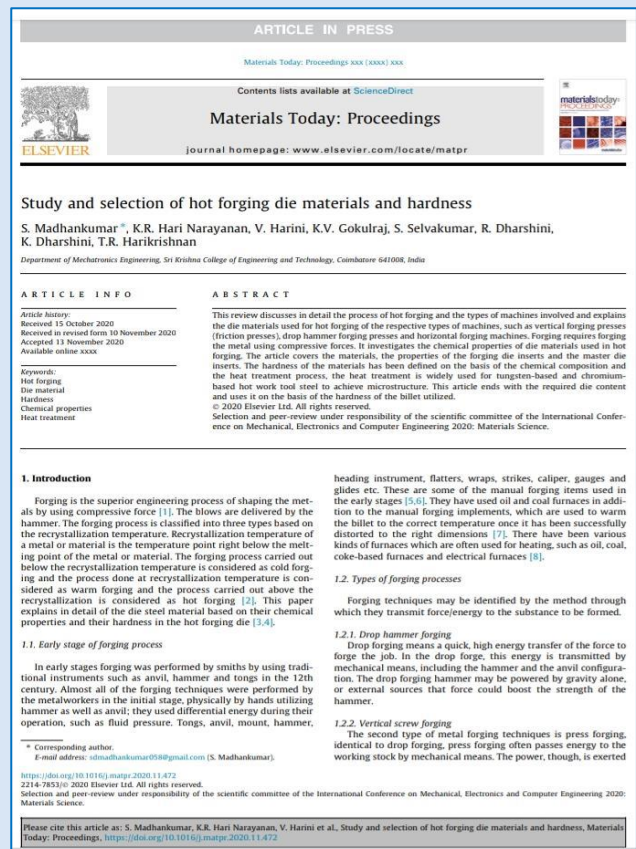
R&D | PAPER PUBLICATION - CIVIL

Dr.S.Ramakrishnan, Associate Professor, Department of **Civil Engineering** has published a paper entitled “**Adope blocks reinforced with natural fibres: A review**” in **Material Today: Proceedings, Elsevier Journal ISSN:2214 – 7853** along with the **Final** year student team **G.Kowshika, C.Ramprakash** and **M.Aruneshwaran** It is indexed in **Scopus** and **WOS** – Conference Proceedings Citation Index. DOI:<https://doi.org/10.1016/j.matpr.2020.11.377>



R&D | PAPER PUBLICATION - MCT

Mr.S.Madhankumar, Assistant Professor of **MCT** along with the Pre-final year students of MCT **K.R.Hari Narayanan, V.Harini, K.V.Gokulraj, S.Selvakumar, R.Dharshini, K.Dharshini** and **T.R.Harikrishnan** has published a paper entitled “**Study and selection of hot forging die materials and hardness**” in **Materials Today: Proceedings, Elsevier Journal** ISSN: 2214-7853. It is indexed in Scopus and WOS - Conference Proceedings Citation Index. Impact Factor: 0.97.
DOI: <https://doi.org/10.1016/j.matpr.2020.11.472>



R&D | PAPER PUBLICATION - MBA

Mr.T.Krishnasamy, Assistant Professor, **School of Management** has published a paper entitled on “**A study on the relationship between emotional intelligence and job satisfaction among millennial’s in the life-care production sector**” in **PENSEE International journal**, ISSN: 0031-477 3, Volume 51 - Issue 01 – January 2021. It is Scopus indexed and UGC approved journal.



R&D | PAPER PUBLICATION - MCT

ICMECE 2020 IOP Publishing
IOP Conf. Series: Materials Science and Engineering 993 (2020) 012142 doi:10.1088/1757-899X/993/1/012142

Fabrication Of Paper Cutting Machine Using Eye Mark Sensor

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² Department of Mechanical Engineering, Rajalakshmi Institute of Technology, Chennai, India
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Abstract The paper cutting machine using eye-mark sensor is used to cut the papers in equal and accurate dimensions. The main principle of this method is used to reduce the human power and time consumption by eliminating the wastage of the raw materials. Eye-mark sensor is used to sense the colour present on the paper and make the machine to cut on the place where the paper is marked. It has a transmitter and the receiver which sends the light signal through transmitter and it senses the colour. The sensed signal is received through the receiver. When the signal is received the roller motor is stopped and the cutter motor is started. The cutter motor completes its rotation and again the paper roll is feed. This system can be applicable for paper cutting industry and it is a low cost solution which increases the production process.

Keywords: Paper roller; Eye-mark sensor; Accurate dimensions; Low cost system

INTRODUCTION

Nowadays there are lot of competition in the paper industry. For effective functioning of the paper industry there is a need for development of automated systems. That automated system should increase the production and the accuracy and quality of the product. This proposed system is used to cut the paper accurately in the industry. In the paper industry for cutting the paper in the large numbers we use this method. This machine is manufactured using low cost and efficient method. This machine aims to reduce the labour power and saves time in industries by eliminating the paper marking time. Here the paper is sensed and marked using eye mark sensor. The paper which is said to be cut is marked and the accurate position is detected with the color using eye-mark sensor and color sensor. An eye-mark is a small rectangular printed area located near the edge of the printed flexible packaging

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Mr.P.M.Arunkumar, Assistant Professor of MCT along with **R. Akesh, M. Dharun, M. Gokul and K. S. Gokul Pradeep**, Final year students of MCT department has published a paper entitled **“Fabrication Of Paper Cutting Machine Using Eye Mark Sensor”** in IOP Conf. Series: Materials Science and Engineering, 993, (2020) 012142. It is indexed in Scopus and WOS - Conference Proceedings Citation Index. DOI: 10.1088/1757-899X/993/1/012142

R&D | PAPER PUBLICATION – MCT/MECH

Mr.L Feroz Ali, Assistant Professor, **Mechatronics Engineering** along with **Dr.R.Soundararajan**, Associate Professor, **Mechanical Engineering** has published a Journal titled **“Microstructural evolutions and mechanical properties enhancement of AA6063 alloy reinforced with Tungsten (W) nanoparticles processed by friction stir processing”** in **Materials Characterization** with impact factor of 3.562.

Materials Characterization 172 (2021) 110963

Contents lists available at ScienceDirect

Materials Characterization

journal homepage: www.elsevier.com/locate/matchar

Microstructural evolutions and mechanical properties enhancement of AA 6063 alloy reinforced with Tungsten (W) nanoparticles processed by friction stir processing

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ARTICLE INFO

Keywords:
AA 6063
W nanoparticles
Friction stir processing
Microstructure
Tensile properties
Work hardening rate

ABSTRACT

An increase in tensile strength without compromising the ductility is an uphill task in the fabrication of MMCs. This issue can be overcome by the addition of high temperature withstanding metallic nano-particles limiting stability at elevated temperatures. The present research work concentrates on (a) the development of AA 6063 alloy reinforced with Tungsten nanoparticles (0, 3, 6, 9 and 12 vol%) via FSP, (b) examining the phase analysis using XRD technique, and microstructural evolutions through TEM and EDS, (c) the improvement in mechanical properties (hardness and tensile strength) and investigate the contribution of strengthening mechanisms, and (d) the work hardening rate, intercept (k) and strain hardening exponent (n) through True stress-strain curves. The results revealed that the uniform dispersion of W nanoparticles is consistent across the stir zone (SZ) of the AA 6063 matrix. Tensile results were witnessed an improvement in UTS with the fraction of W nanoparticles addition and by choosing the major iron in the SZ. The dispersion strengthening has influenced more to the total strength of the fabricated MMC due to the pinning effect produced by nano W particles. AA 6063 alloy reinforced with 12 vol% nano W particle specimen has produced superior mechanical properties (Yielden hardness strength of 1.23 UTS, UTS of 432.58 MPa and, elongation of 18.2%).

1. Introduction

The combination of high strength and lightweight materials is a vital requisite in the aircraft and automobile industries. The reduction in weight of engineering components leads to an improvement in fuel efficiency and an increase in the payload as described by Duran and Smith [1]. This can be satisfied by MMCs without compromising the mechanical properties. According to [2], MMCs being a new material of pursuit, improves the performance of materials, and extend the service life of the components. In general, MMCs have combination properties from both the matrix and reinforcement. Among the various series of Al alloys, Al fcc series alloys are precipitation-hardened alloys comprised of Si and Mg as major alloying elements as reported by Thangarasa et al. [3] for instance. Especially, AA 6063 can be weldable, formable, and machinable with medium strength. Hence, AA 6063 is applied in bicycle frames and bridge rails, and other structural parts as demonstrated by

Gargil et al. [4]. Altogether, MMCs gets strengthened by embedding the ceramic particles like oxides, borides, nitrides, carbides, and nanotubes reported by Kulk et al. [5]. As per McDevitt [6] long back, the hard-ceramic particles introduced in the soft Al matrix improves the strength, wear, and corrosion resistance without any addition of weight. Conversely, the agglomerated/clattered ceramic particulates severely decrease the ductility and restrict the plastic flow of the composite. The drop in ductility is one of the catastrophic failures in the engineering components falling in service life. The work based on Zhang et al. [7] reported that it is better to choose the metallic particles with higher hardness, higher melting point with limited solubility, as a reinforcement to retain the ductility incommensurate with increase in strength of the MMCs. At this juncture, Tungsten (W) is a promising candidate to select as a reinforcement particle due to its higher strength, higher stiffness, higher melting point (3414 °C), and retaining the properties at elevated temperatures which are also studied by Datta et al. [8]. The retention of metallic particles in their elemental form in MMCs is highly

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https://doi.org/10.1016/j.matchar.2021.110963
Received 23 September 2020; Received in revised form 23 December 2020; Accepted 11 January 2021
Available online 13 January 2021
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PLACEMENT AND TRAINING



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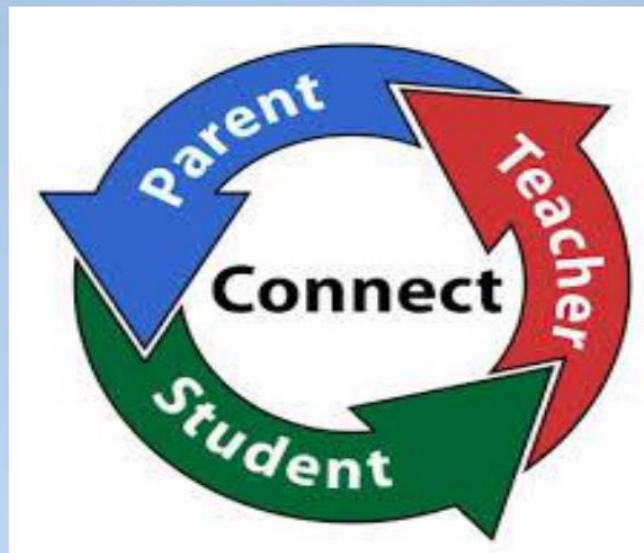
PLACEMENT | TEST FROM HOME (TFH SLOT-36)



Placement Team conducted **Test from home**. Students from various departments took up the test sincerely.



TUTOR WARD MEETING



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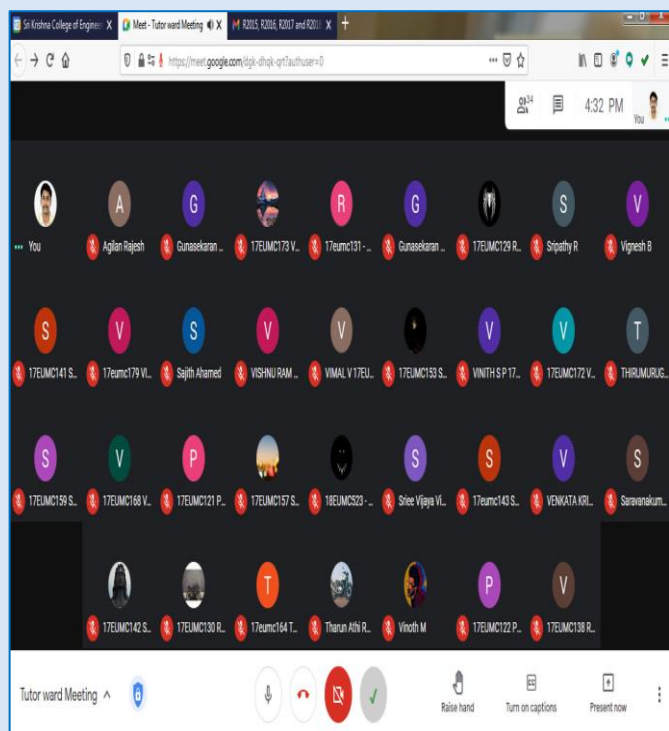


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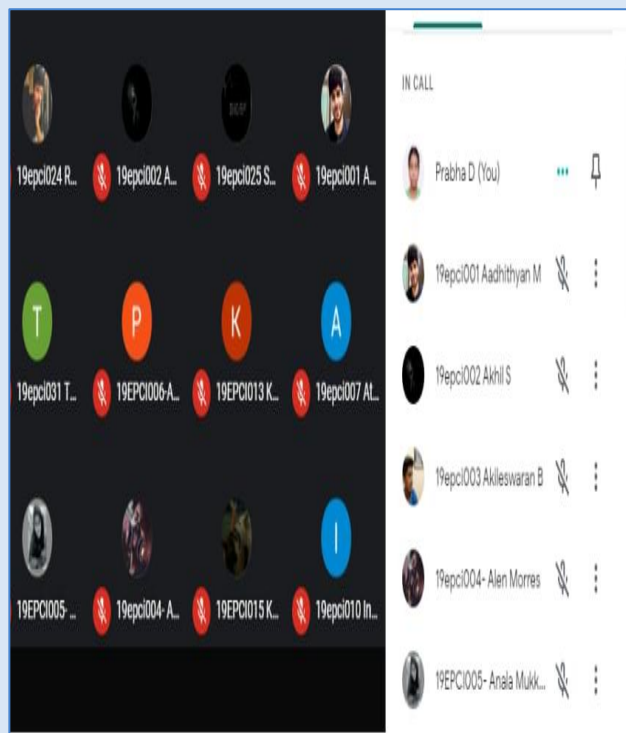
MECH | TUTOR WARD MEETING - IV YEAR



Tutor Ward Meeting was conducted for the **Final year Mechanical Engineering** students. Project work & review process, significance of Nasscom Artificial Intelligence course registration, Completion of project work by first week of March were the points discussed during the meeting.

CSE | TUTOR WARD MEETING – II YEAR

Department of CSE organized a **Tutor ward Meeting for Second year M.TECH CSE Students 19.01.2021**. Students actively involved and appreciated the efforts taken by SKCET during this lockdown period and assured their extended support towards Learning and Participation. The Core Discussion was on Interactive Online Classes, Syllabus Coverage, Virtual Lab, Assignments, Quizzes, Attendance, Placements, NASSCOM's Future Skill Course and Toycathon 2021.





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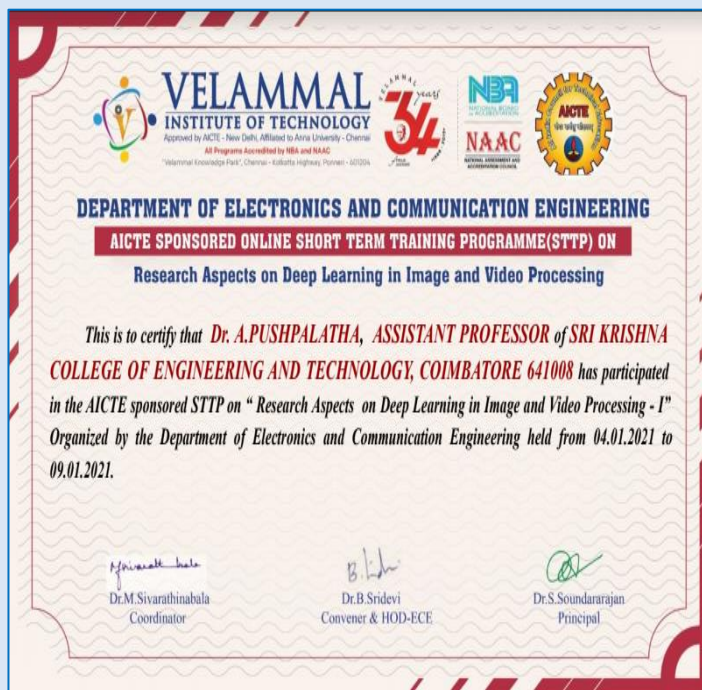


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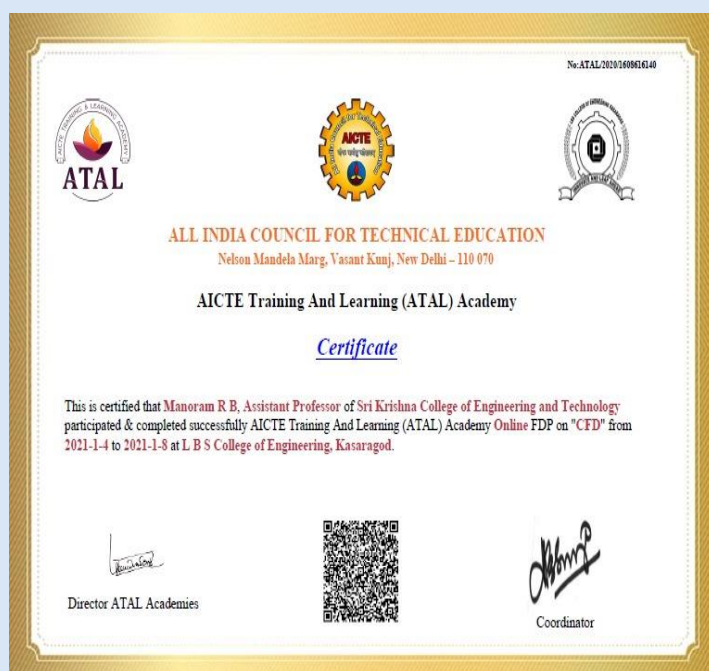
CSE | STTP ON DEEP LEARNING IN IMAGE AND VIDEO PROCESSING



Dr.A.Pushpalatha, Assistant Professor, **CSE** has participated in the AICTE sponsored Online STTP on "Research Aspects on Deep Learning in Image and Video Processing" from 04.01.2021 to 09.01.2021 organized by Velammal Institute of Technology, Chennai.

MECH | ATAL FDP ON COMPUTATIONAL FLUID DYNAMICS

Mr.R.B.Manoram, Assistant Professor, Department of **Mechanical Engineering** has participated and successfully completed AICTE sponsored ATAL FDP on "**Computational Fluid Dynamics**" at L B S College of Engineering, Kasaragod from 4.01.2021 to 8.01.2021.



MECH | PROCESSING OF POLYMERS AND POLYMER COMPOSITES



Dr.R.Jeyakumar, Associate Professor and **Dr.R.Arunbharathi,** Assistant Professor, Department of Mechanical Engineering have successfully completed a course titled "**Processing of Polymers and Polymer Composites**" with Gold medal and Silver medal respectively.

CSBS | FDP PROGRAMME PARTICIPATION

Dr.G.IgnishaRajathi, Associate Professor, Department of **Computer Science and Engineering** has successfully completed the AICTE-ISTE approved Orientation/ Refresher Programme on "**Feature Analysis using AI/ML**" organized by the Department of Electronics and Communication Engineering, Sri Krishna College of Engineering and Technology from 07-12-2020 to 12-12-2020.



EEE | STTP ON DIGITIZATION IN INDUSTRIAL AUTOMATION



Mr.N.Loganathan and **Ms.T.Malini** Assistant Professors, **EEE** has participated in the AICTE sponsored one week on-line STTP on "Digitization in Industrial Automation" organized by Kumaraguru College of Technology, Coimbatore.

MCT | DESIGN AND DEVELOPMENT OF PRODUCTS AND SERVICES



Mr.S.Madhankumar, Assistant Professor, **MCT** has participated in AICTE-ISTE approved Orientation/Refresher programme on "Design and Development of Products and Services" organized by R.M.K Engineering College, Chennai, Tamilnadu.

MECH | STTP ON ADDITIVE MANUFACTURING

Dr.K.Balasubramanian, Professor, Mechanical Engineering has participated in one week online Short Term Training Program on **"Additive Manufacturing for Medical and Aerospace Applications"** organized by Shri Vishnu Engineering College for Women from 04.01.2021 to 08.01.2021



MCT | ATAL FDP ON INTERNET OF THINGS

Ms.M.Bhuvaneshwari, Assistant Professor, MCT has participated in the **AICTE- Training and Learning(ATAL) Academy** online FDP on **"Internet of Things"** from **11.01.2021 to 15.01.2021** at **Amal Jyothi College of Engineering.**



SOM | INTERNATIONAL CONFERENCE PAPER PRESENTATION



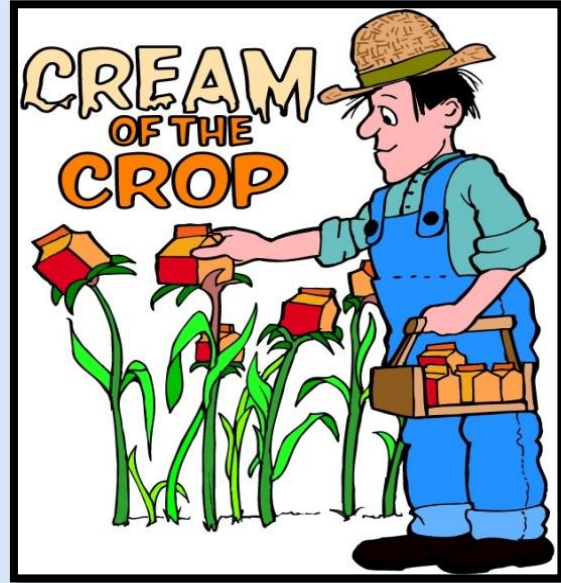
Dr. Sridevi.K.B, Professor from **School of Management** has presented paper titled '**Adoption of E-Healthcare Services: Consumers' preferences and problems**' in the International Conference on Marketing, Technology and Society organized by Indian Institute of Management, Kozhikode from 07.12.2020 to 09.12.2020.

ECE | ATAL FDP ON AR AND VR

Dr.C.Thirumarai Selvi, Professor, **ECE** has attended ATAL sponsored STTP on "**Augmented Reality and Virtual Reality**" organized by Narasaraopeta Engineering College from 04.01.2021 to 08.01.2021.



IDIOM OF THE WEEK | CREAM OF THE CROP



Meaning: The best or choicest of anything.

Idiom in a Sentence:

- These delicious Indian mangoes are surely the **cream of the crop**.
- These three students are very bright. They are the **cream of the crop in their class**.
- This is the best store to buy clothes. They only sell the **cream of the crop** labels.
- This new laptop is the **cream of the crop model**.
- A cheese-making team has proved they are the **cream of the crop** by scooping a top award.

TRIBUTE TO THE REVOLUTIONARY LEADER ON HIS 125th BIRTH ANNIVERSARY



One of the most iconic heroes in the Indian struggle for independence, **Netaji Subhas Chandra Bose** has inspired generations. Born on **January 23, 1897** in Cuttack, Odisha, Subhas Chandra Bose earned the title '**Netaji**' by people. An iconic leader who led the revolution from the front, Netaji was the President of the Jamshedpur Labor Association and battled for worker's rights. His aim was to ensure the survival of the Indian Steel Industry and build an ideal labor organization. He facilitated a settlement between the Union and the Management that strengthened the institution and helped shape Jamshedpur into a bustling industrial center.



FACULTY PROGRESSION



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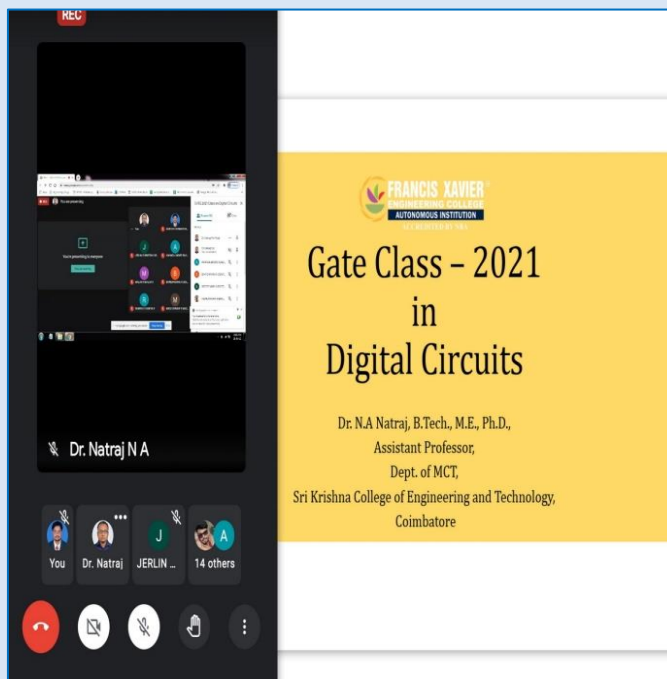
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MCT | RESOURCE PERSON - GATE TRAINING SESSION

Dr.N.A.Natraj, Assistant Professor, Department of **Mechatronics Engineering,** has been the Resource person for the **GATE Training Session in Digital Circuits** on 18th Jan 2021 at Francis Xavier Engineering College, Tirunelveli.



CSBS | IEEE REVIEWER RECOGNITION




Dr.S.Balakrishnan Professor and Head, Department of **Computer Science and Business System** has received the Certificate of Reviewer Recognition, having completed the review of an article in IEEE Access, December 2020.

HEALTHOGRAPHICS | STRENGTHEN YOUR SPINE


5 Ways to Keep Your Spine Healthy and Happy

Here are 5 key measures you can take to strengthen your spine and make your daily activities more comfortable and less painful.

1  **De-stress your spine while sleeping.**
Support your spine by lying on a medium-firm mattress and place a pillow between your legs or under your knees to reduce pressure on the spine.

2 **Exercise your core.**
Engage in core building exercises to strengthen the muscles in your lower back and abdomen in order to stabilize your spine. 






3  **Wear shoes that support your spine.**
Wear shoes that provide a supportive base to help the spine and body remain in alignment. Make sure that the area of the shoe that fits the back of your heel is snug, but not overly tight.

4 **Indulge in a massage.**
Pamper your spine with a good back massage, which has a number of therapeutic benefits, such as increasing blood flow, loosening tight muscles and connective tissues, and boosting feelings of relaxation. 

5  **Support your spine while sitting.**
Invest in the right office chair and practice an ergonomically supported sitting posture to help maintain the natural curve of your back.

Pick a few of the above ideas for indulging your spine — even small changes to your daily routine will add up to provide meaningful pain relief.

INFOGRAPHICS | SMART GOAL

<p>S</p>	 <p>SPECIFIC What do I want to accomplish and what will I do to make it happen? "I will go to the gym to lose weight."</p>
<p>M</p>	 <p>MEASURABLE What data will I use to measure my goals? (How much? How long? How well?) "I will go to the gym 3x a week to lose weight."</p>
<p>A</p>	 <p>ACHIEVABLE Can I honestly accomplish this goal? Do I have the skills necessary?</p>
<p>R</p>	 <p>RELEVANT Why is it important for me to accomplish this goal? Does this goal align with my other goals?</p>
<p>T</p>	 <p>TIME-BOUND What is the time frame necessary to accomplish this goal? "I will go to the gym 3x a week for 3 months to lose weight."</p>