

IGNITE 2023



A DAILY NEWSLETTER

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STUDENT ACHIEVEMENT



Certificate no: UC-289f98b2-3a03-4e2c-8f80-fd5e510f61b7
Certificate url: ude.my/UC-289f98b2-3a03-4e2c-8f80-fd5e510f61b7
Reference Number: 0004

CERTIFICATE OF COMPLETION

Pre MBA for Undergraduates

Instructors **Arun Singhal**

A Paul Jeevanesan

Date **April 30, 2023**
Length **9.5 total hours**



Mr. A. Paul Jeevanesan, III year student, Department of Mechanical and Automation Engineering has completed an online **Pre MBA for Undergraduates** certification course, certified by Udemy, on 30th April 2023.

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STUDENT ACHIEVEMENT



Shrivarshan H, final year student, Department of Biomedical Engineering has won **three bronze medal** in the Interstate event organized by Tamil Saurashtra Sangam and Swimming Federation of India in 100 mts breast stroke - third, 4x 100 medley relay - third, 4x 50 mixed medaly relay - third held at Gujarat on 22nd to 23rd April, 2023.

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FACULTY ACHIEVEMENT

Silicon
https://doi.org/10.1007/s12633-023-02497-1

RESEARCH

Effect of Silica Nanoparticles and Modified Silica Nanoparticles on the Mechanical and Swelling Properties of EPDM/SBR Blend Nanocomposites

K. Ragupathy¹ · G. Prabakaran² · N. Pragadish³ · S. Vishvanathperumal²

Received: 23 February 2023 / Accepted: 28 April 2023
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Abstract

The influences of nanosilica and modified nanosilica on cure, compression set, mechanical and swelling characteristics are studied in blends of ethylene-propylene-diene monomer (EPDM)/styrene-butadiene rubber (SBR). In EPDM/SBR composites, the nanosilica made from rice husk ash (RHA) was utilised as a reinforcing nanofiller. The interaction between the nanosilica and the EPDM/SBR matrix at the interface is crucial for the production of rubber composites. This study uses bis[3-(triethoxysilyl)propyl] tetrasulfide (TESPT) and polyoxyethylene (20) sorbitan monolaurate (TWEEN-20) as a silica modifier, with the ratio of TESPT to TWEEN-20 maintained at 2:1. The cure and mechanical characteristics, compression set, abrasion and swelling resistance increased with the incorporation of nanosilica and modified nanosilica. By interacting at the interface between silica nanoparticles and the EPDM/SBR rubber matrix, TESPT with the TWEEN-20 modifier exhibits a considerable effect on cure characteristics, mechanical qualities, and swelling resistance.

Keywords EPDM/SBR · Nanosilica · Modified nanosilica · Mechanical properties · Swelling resistance



Dr. K. Ragupathy, Assistant Professor, Department of Mechanical & Automation Engineering has published a Research Article entitled **Effect of Silica Nanoparticles and Modified Silica Nanoparticles on the Mechanical and Swelling Properties of EPDM/SBR Blend Nano composites**, Journal of Silicon, Springer Nature Publishing Ltd, in the Web of Science Journal –SCI, Impact Factor: 2.941, Published on 5th May 2023.

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FACULTY PARTICIPATION



Ms. Jancy Rani. K, Assistant Professor, Department of Computer Science and Engineering has participated in a five day **International workshop on Application of Machine learning and Artificial Intelligence in Research and Innovation** organised by Regional College of Education Research and Technology, Jaipur held from 2nd to 6th May 2023.

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FACULTY PARTICIPATION



Ms. Shimona. S, Assistant Professor, Department of Computer Science and Engineering has participated in a Five days **International workshop on Application of Machine learning and Artificial Intelligence in Research and Innovation** organised by Regional college of Education Research and Technology, Jaipur held from 2nd to 6th May 2023.

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FACULTY PARTICIPATION



Dr. L. Sharmila, Professor and Head, Department of Computer Science and Engineering has participated in a five day **International workshop on Application of Machine learning and Artificial Intelligence in Research and Innovation** organised by Regional College of Education Research and Technology, Jaipur held from 2nd to 6th May 2023.

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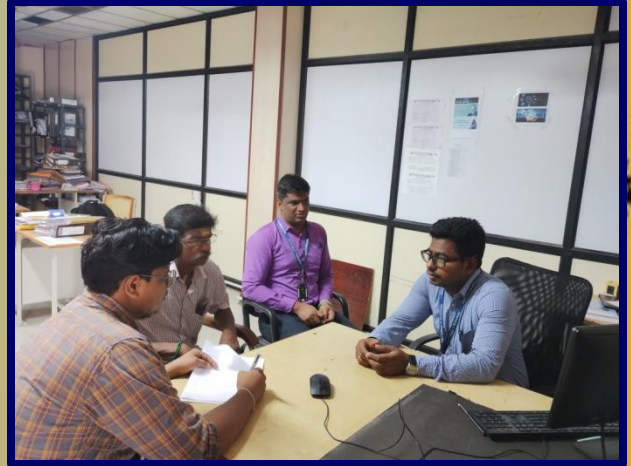


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PARENT TEACHER MEET



Great opportunity to open two ways communication for the welfare of kid

The Parents Teacher Meeting for the III year student was held in the Department of Information Technology on 1st and 2nd May 2023. The meeting was chaired by Dr. S. Geerthik, Head, along with class advisors Mr. Sabaresan and Ms. Madhumathi. The purpose of this meeting was to discuss the strategies to improve the attendance percentage of the students. The meeting began with a review of current Anna University Attendance policies and the expectations of college-level attendance. The undertaking letters were collected from the parents of students with less attendance percentage. The performance of the students in IAT 1 and IAT2 Exams were shared and students were motivated to improve their skills through Agni Pride Activities.

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STUDENT REPOSITORY



Creativity is intelligence having fun

Rajeswari V, II year student, Department of Electronics and Communication Engineering has portrayed a beautiful Pencil Sketch of Lord Ganesha.

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