

IGNITE 2022



A DAILY NEWSLETTER

Editor in chief

Dr. Srinivasan Alavandar
Principal, ACT

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STUDENTS ACHIEVIEMENT



The students of 2015-2019 batch have received the **Anna University Degree CertificateS** from the Principal and the students have take the blessings of Mr. Ramamoorthy, HR too.

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OFFICE OF THE EXAM CELL

ANNA UNIVERSITY:: CHENNAI 600 025

Internal Assessment Schedule for Non Autonomous Affiliated Institutions

JUNE 2022 – October 2022 - (SEMESTER - II)
PG (FT) Degree Programmes - M.E. / M.Tech. / M.Arch.

Report No	Report Period	Test Period	Report Entry Period
I	27-06-2022 – 12-08-2022	05-08-2022 – 12-08-2022	12-08-2022 – 18-08-2022
II	13-08-2022 – 30-09-2022	26-09-2022 – 30-09-2022	30-09-2022 – 03-10-2022

Saturdays may be included as working days to make good the Shortages, if any.

P. Senthil Kumar
05.08.2022
CONTROLLER OF EXAMINATIONS

Exam cell
B.I

15-08-22

All the affiliated colleges have received a notification from COE, Anna University regarding PG (01 Year 02 Semester) Internal Assessment Portal entry time period.

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A VISIT TO PONMAR VILLAGE PANCHAYAT



Dr. Balaji Madhavan and Mr. Purushothaman P met Mr. Narayanan, President of Ponmar Village Panchayat on 5th August 2022 to promote the **Unnan Bharat Abiyan Scheme**, which aims to identify the development challenges in Rural India. Mr. Narayanan has agreed to conduct the survey in Polacherry village on 8th August 2022.

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INTERNATIONAL MARATHON – STUDENTS PARTICIPATION



Mr. Senathipathi A and Mr. Sanjay M, III year students, Department of Mechanical Engineering have participated in the **Kalaignar Memorial International Marathon** organized by the **Tamilnadu Government** on 7th August 2022. The students were given medals for completing the race.

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INAUGURATION OF MANUFACTURING CLUB



The Department of Mechanical Engineering Inaugurated the **Manufacturing Club** on 5th August 2022. The Club aims to give hands-on Training in Manufacturing processes involved in building a Go-Kart Battery and Engine power. III year students of Mechanical Engineering have actively participated in the activities of the club.

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CLUB ACTIVITY



Club activities were conducted for III year students, Department of Chemical Engineering on 5th August 2022. The students spoke on the contribution of various scientists.

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INTERNSHIP AND TRAINING



S. Sriram and M. Yukesh, IV year students, Department of Aerospace Engineering have completed an Internship and Training on **Cubesat Design and Fabrication** at **Vaayusastra Aerospace**, IITM Research Park, Chennai on 2nd August 2022.

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STUDENT REPOSITORY



Ms. Kirthika. K, III year student, Department of Information Technology has completed a course on **Web Development Fundamentals** on 6th August 2022 offered by **Sololearn**.

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FACULTY PARTICIPATION

Ms. Suganthi. P, Assistant Professor, Department of Information Technology has participated in a National Webinar on **Cognition and Learning** organized by the Department of Education, **Mandsaur University**, Mandsaur, Madhya Pradesh on 2nd August 2022.

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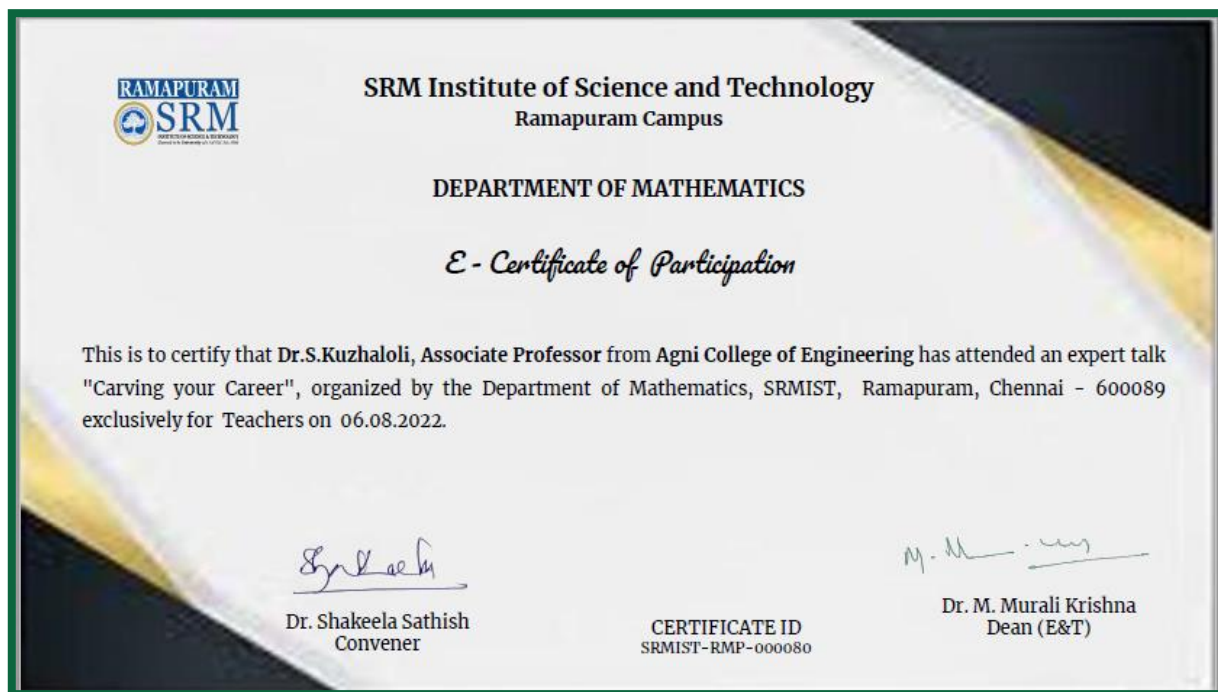
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FACULTY PAPER PUBLICATION

Dr. Kuzhaloli S, Associate Professor, Department of Electronics and Communication Engineering has delivered an **Expert Talk on Carving your Career** organised by SRM Institute of Technology, Ramapuram, Chennai on 6th August 2022.

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FACULTY PAPER PUBLICATION

JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS
<https://doi.org/10.1080/02533839.2022.2101538>



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Check for updates

Experimental and theoretical analysis of polymer blend composites using Weibull distribution

Sundaram R K^a, Senthil Kumaran S^b, Edwin Samson P^b and R. Pandiyarajan^{b,c}

^aDepartment of Mechanical Engineering, Anna University, Chennai, India; ^bDepartment of Mechanical Engineering, College of Engineering, Chennai, India; ^cDepartment of Mechatronics, Agni College of Technology, Chennai, India

ABSTRACT

In the present work, the mechanical and thermal behaviors of Poly Butylene Terephthalate, Poly Trimethylene Terephthalate and Poly Butylene Terephthalate (30% Glass filled) polymer and polymer blend composites were studied. Reliability analysis on tensile strength and flexural strength for the polymers and polymer blend composites at different cross-head speeds was done by Weibull distribution methodology. By using Weibull distribution (Two parameters), the theoretical tensile and flexural strength values were determined for the polymers and polymer blend composites at different cross-head speeds. Weibull analysis revealed good correlation between experimental mechanical strength values at varying load conditions with uniform strength distribution. The probability functions indicated good correlation between the cumulative density and strength of the polymer blends suggesting improved thermal stability and reduction in loss of material mass. A thermal scan to determine the mass loss, glass transition temperature (T_g), melting and decomposition, revealed improved adhesion and enhanced constituent miscibility while the fractography indicated increased interfacial bonding strength and reduced phase tension. The improved adhesion between the polymer phases was caused by the compatibilizer which also improved the mechanical properties and thermal stability.

ARTICLE HISTORY

Received 28 October 2021

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KEYWORDS

Polymer blending; injection molding; tensile; flexural test; Weibull distribution analysis; TGA; DSC; FESEM



Dr. Pandiyarajan, Head, Department of Mechatronics Engineering has published a paper on **Experimental and Theoretical Analysis of Polymer Blend Composites Using Weibull Distribution** in the Journal of the Chinese Institute of Engineer, DOI.

article: <https://doi.org/10.1080/02533839.2022.2101538>

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