SRM TRP ENGINEERING COLLEGE
Affiliated to ANNA UNIVERSITY
TIRUCHIRAPPALLI

SRM TRP ENGINEERING COLLEGE

ASPIRE

Academic Skills Placement Innovation Research and Exploration

NEWSLETTER

VOLUME 16 | ISSUE 6
JUNE 2025

CONTENT

VISION

To carve the youth as dynamic, competent, valued and knowledgeable Technocrats through research, innovation and entrepreneurial development for accomplishing the global expectations.

MISSION

M1: To Inculcate academic excellence in engineering education to create talented professionals.
M2: To Promote research in basic sciences and applied engineering among faculty and students to fulfill the societal expectations.
M3: To enhance the holistic development of the students through meaningful interaction with industry and academia.
M4: To foster the students on par with sustainable development goals thereby contributing to the process of nation building.
M5: To nurture and retain conducive lifelong learning environment towards professional excellence.

PATRON

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Chairman- SRM Group of Institutions

Mr. S. Niranjan
Co-Chairman- SRM Group of Institutions

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Asst.Professor / ECE

Elite

To exit full screen, press Esc

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

B DHEEBIKHAA

for successfully completing the course

Plastic Waste Management

with a consolidated score of **90** %

Online Assignments	24.13/25	Proctored Exam	65.5/75

TOP TOPPER 2%

Total number of candidates certified in this course: **3184**

Jan-Mar 2025

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam

Roll No: NPTEL25CE45S446201267 To verify the certificate No. of credits recommended: 2 or 3

B.Dheebikhaa successfully completed the "Plastic Waste Management" course offered by NPTEL, funded by the Ministry of Education, Government of India, and coordinated by IIT Kharagpur, securing a consolidated score of 90% and ranking in the Top 2% among 3,184 certified candidates nationwide. Over the 8-week duration (Jan–Mar 2025), the course provided in-depth insights into plastic waste generation, its environmental impacts, and sustainable management practices such as recycling, waste-to-energy conversion, and policy frameworks.

The certificate acknowledges Shiny Pershiya A's participation in a webinar titled "Master Vertex AI - Build, Deploy & Scale ML Models on Google Cloud," which took place on June 3rd, 2025.

The certificate acknowledges Dr. M. Vinoth's participation in a webinar titled "Master Vertex AI - Build, Deploy & Scale ML Models on Google Cloud," which took place on June 3rd, 2025.

The certificate acknowledges Dr. A. Sugantha's participation in a webinar titled "Master Vertex AI - Build, Deploy & Scale ML Models on Google Cloud," which took place on June 3rd, 2025.

Certificate of Completion awarded to Mrs. KRISHNA RANI M from SRM TRP Engineering College for successfully completing the Capacity Building Programme on Cybersecurity, organized by IIT Madras and conducted by ITM Pravartak as part of the Malaviya Mission Teacher Training Programme.

COMPUTER SCIENCE ENGINEERING & AIDS

FACULTY ACHIEVEMENTS

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SRM TRP ENGINEERING COLLEGE
IRUNGALUR - TRICHY

A+ NAAC

Department of Computer Science and Engineering
&
Department of Artificial Intelligence and Data Science

Hearty Congratulations
Faculty Achievers

NPTEL

Dr S SABEETHA SARASWATHI
Associate Professor / CSE
Edge computing (Jan– Mar 2025)
Elite+Silver

Mrs. R. SAMPAVI
Assistant Professor/CSE
Data Mining (Jan– Mar 2025)
Elite

Mrs. S. JALINI
Assistant Professor / AI & DS
Data Mining (Jan– Mar 2025)
Successfully Completed

Dr. A. MUTHURAJ
Assistant Professor /CSE
Python For Data Science (Jan -Feb 2025)
Elite+Silver

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COMPUTER SCIENCE ENGINEERING & AIDS

FACULTY ACHIEVEMENTS

R.PADMANABAN has successfully Received in Recognition of his role as mentor for the NPTEL Online Certficiation Course NPTEL courses during the January–Apr 2025 session.

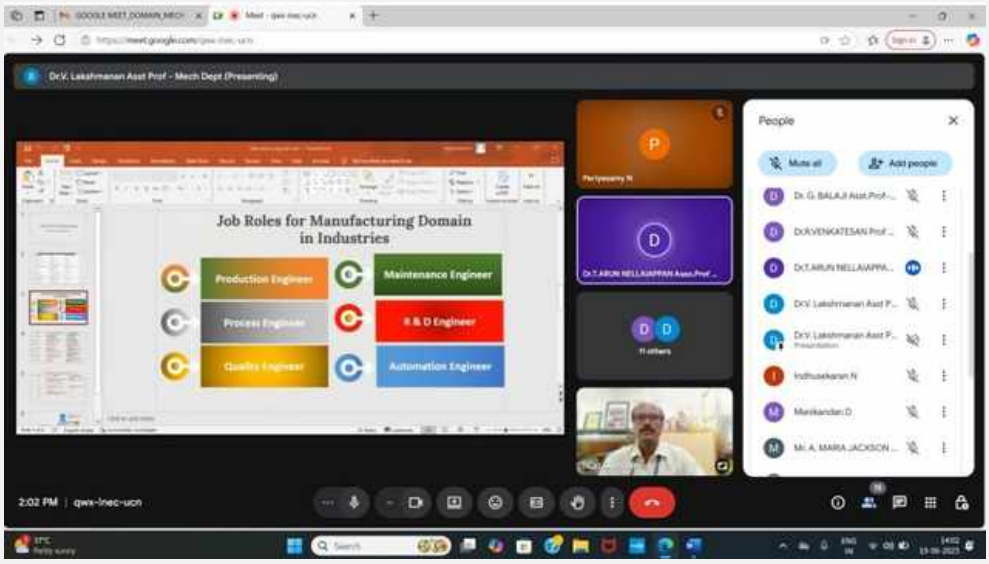
V.RAJESH has successfully Received in Recognition of his role as mentor for the NPTEL Online Certficiation Course NPTEL courses during the January–Apr 2025 session.

MECHANICAL ENGINEERING

INDUSTRIAL VISIT

During the recent industrial visit to Sri Energy Valves Ltd., we were delighted to meet Aasai Pandian, a proud alumnus from the Mechanical Engineering Batch of 2025. He is currently serving as a Production Engineer at the company. It was a moment of pride for both faculty and students to witness our graduate thriving in the professional world. We extend our heartfelt congratulations to him and wish him continued success in his career.

A Domain Meeting for the Mechanical Engineering Department was held on June 19, 2025, at 1:50 PM via a virtual platform. The key agenda was to align academic initiatives with evolving industrial trends, ensuring enhanced employability and industry readiness among students.



A Domain Meeting for the Mechanical Engineering Department was held on June 19, 2025, at 1:50 PM via a virtual platform. The key agenda was to align academic initiatives with evolving industrial trends, ensuring enhanced employability and industry readiness among students.

The session commenced with an inspiring address by our respected Principal, who emphasized the significance of integrating domain-specific academic strategies with current industry requirements. His insights highlighted the crucial role such alignment plays in shaping future-ready engineers.

Dr. T. Arun Nellaiappan, Associate Professor, Mechanical Engineering, delivered a comprehensive presentation on the Manufacturing Domain, outlining its pivotal role in improving placement opportunities for students, especially in Tier-I mechanical industries.

To conclude the meeting, domain coordinators from the Design and Thermal Engineering streams were encouraged to implement similarly structured and industry-relevant academic approaches, promoting cohesive development across all major domains within the department.

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MECHANICAL ENGINEERING

FACULTY ACHIEVEMENTS

🎉 **Proud Moment for SRM TRP Engineering College!** 🎉

We are delighted to congratulate our dedicated faculty members for their exceptional achievement in the **NPTEL Online Certification Courses**, earning the prestigious **Elite + Silver** recognition! 🏅

This accomplishment reflects their unwavering commitment to continuous learning, academic excellence, and staying updated with the latest advancements in their respective domains. 🌟

👏 Special appreciation to all faculty members who have gone the extra mile to upskill themselves and set a strong example for our students. Your passion and pursuit of knowledge truly inspire the academic community! 🙌

At **SRM TRP Engineering College**, we strongly support initiatives like **SWAYAM–NPTEL**, which empower educators and learners across the nation.

Let's continue to learn, grow, and make a difference in the world of education. 💡

MECHANICAL ENGINEERING

COLLEGE ACHIEVEMENTS

🌟 Proud Moment for SRM TRP Engineering College! 🌟

We are delighted to share that SRM TRP Engineering College, Tiruchirappalli, has been ranked in the PLATINUM BAND under the OBE Rankings 2025 (Outcome-Based Education) by R World Institutional Ranking.

🏆 This recognition as an Institution of Academic Excellence reflects our unwavering commitment to quality education, student-centric learning, and continuous academic improvement through strategic implementation of Outcome-Based Education (OBE).

A heartfelt thank you to our dedicated faculty, supportive management, enthusiastic students, and all stakeholders who made this achievement possible.

We remain committed to advancing academic excellence and preparing our learners for a dynamic future.

🌍✨ We are thrilled to share that **SRM TRP Engineering College** has been selected as a **Finalist** for the **International Green Gown Awards 2025**, under the prestigious category of *Next Generation Learning & Skills*! 🎓🌱

This recognition highlights our commitment to embedding sustainability into engineering education and empowering our students to become catalysts for change in building a better, greener future. 🌿🔧

A big thank you to our dedicated faculty, passionate students, and visionary leadership who made this possible. This is more than an award – it's a testament to our continuous journey towards integrating the **Sustainable Development Goals (SDGs)** into every facet of learning.

Let's continue to inspire, innovate, and lead for a sustainable tomorrow! 💚

Department of Chemistry

Tree Plantation Report

Date: 05.06.2025

Venue: SRM TRPEC Campus

Organized by: NSS Unit, SRM TRPEC

On the occasion of World Environment Day, a tree plantation drive was successfully conducted on 5th June 2025 at the SRM TRPEC Campus, organized by the NSS Unit. The initiative aimed to raise environmental awareness and promote eco-friendly practices among students and faculty.

The event commenced at 9:00 AM with a welcome speech by the Program Officer of NSS, who highlighted the importance of environmental conservation and the role of youth in sustaining the planet. The Principal and other dignitaries graced the occasion and actively participated in planting the first saplings.

Over 150 saplings including native, shade-giving, and medicinal plants were planted across various locations within the campus. NSS volunteers took the lead in digging pits, planting saplings, and arranging watering schedules to ensure the healthy growth of the plants. The enthusiastic participation of students, faculty members, and staff made the event a great success.

The event concluded with a collective pledge by all participants to contribute to environmental protection and to continue such green initiatives in the future.

This plantation drive not only enhanced the greenery of the campus but also reinforced the message that small steps can lead to big environmental changes.

Department of Chemistry

International Yoga Day Celebration

The International Day of Yoga was celebrated with great enthusiasm and spirit at the SRM Playground on 21st June 2025. The event was jointly organized by the NSS, YRC, NCC, and NSO units of SRM TRPEC, aiming to promote the physical, mental, and spiritual benefits of yoga among students and staff. The program began at 3:00 PM with a brief inaugural address by the Principal, who emphasized the significance of yoga in leading a healthy and balanced life. Instructors trained in yoga practices guided the session, starting with warm-up exercises followed by a structured yoga routine that included asanas, pranayama, and meditation techniques.Around 150 participants including students, faculty members, and staff took part in the session with full dedication. The yoga session lasted for about an hour and focused on improving flexibility, concentration, and stress management through traditional yogic practices.Volunteers from NSS, YRC, NCC, and NSO ensured smooth coordination of the event, from arranging yoga mats to providing refreshments and maintaining discipline throughout the session. The collaborative efforts of all organizing bodies contributed to the success of the program.The celebration concluded with a vote of thanks and a collective pledge to incorporate yoga into daily life for better health and well-being. The event reinforced the message that “Yoga is not just exercise, it is a way to discover the sense of oneness with yourself, the world, and nature.”

MATHEMATICS

ACHIEVEMENTS OF THE FACULTY

Dr. K.Iyappan , Associate Professor of Mathematics attended twenty three Days Online FDP on “AI Mastery for Educators” organized by Vishlesan i-HUB IIT, Patna from 15.05.2025 to 07.06.2025..

Dr.S.Sridevi, Associate Professor of Mathematics attended twenty three Days Online FDP on “AI Mastery for Educators” organized by Vishlesan i-HUB IIT, Patna from 15.05.2025 to 07.06.2025..

Palestine Journal of Mathematics

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A NOTE ON $\tau^*\beta_I$-OPEN SETS IN IDEAL TOPOLOGICAL SPACES

S. Rajakumar, J. Sebastian Lawrence and B. Ananda Priya

MSC 2010 Classifications: 54C40, 14E20.

Keywords and phrases: β_I-open sets, $\tau^*\beta_I$-open sets, ideal topological spaces, $\tau^*\beta_I$-continuous, $\tau^*\beta_I$-connectedness.

The authors would like to thank the reviewers and editor for their constructive comments and valuable suggestions that improved the quality of our paper.

Corresponding Author: S. Rajakumar

Abstract *This paper aims to define and investigate a new class of open sets in ideal topological spaces called $\tau^*\beta_I$-open sets. We have obtained some fresh results accompanied by examples. Examples are provided to demonstrate independent connection with more generalized open sets. In addition, we study and characterize the continuous mappings and connectedness in topological spaces with respect to $\tau^*\beta_I$-open sets.*

1 Introduction

Jankovic and Hamlett [1, 2] developed the idea of ideal topological spaces in 1962. Dunham [3] proposed the idea of $\mathscr{C}\ell^*$ and τ^* in 1990. β-open is a concept that was introduced by Glaisa T. Catalan et al. [4]. Chalice Boonpok [5, 6, 7, 8, 9, 10, 11, 12, 13, 14], Ferit yalaz, Aynur keskin [5, 6, 7, 8, 9, 10, 11, 12, 13, 14] have recently contributed their novel ideas on local and multi continuous functions in topological spaces. In topological spaces, Pushpalatha et al. [15] created the τ^*g-closed sets and mappings. Approximations of some near open sets in ideal topological spaces have been examined by Nawar, A.S. [16]. The authors explained the latest open set in ideal topological space, known as $\tau^*\beta_I$-open set, using these terms. Using the $\tau^*\beta_I$-open set, a novel method is developed to investigate connectedness, continuous path and independent outcomes in topological spaces.

2 Preliminaries

Readers require a previously specified definition that follows.

Definition 2.1. [1] A non empty family of subsets of a set X is said to be an ideal $\mathscr{I}$ if it satisfies (i) If $\mathscr{I}_1$ and $\mathscr{I}_2$ belongs to $\mathscr{I}$ then $\mathscr{I}_1 \cup \mathscr{I}_2 \in \mathscr{I}$ and (ii) If $\mathscr{I}_1 \in \mathscr{I}$ and $\mathscr{I}_2 \subseteq \mathscr{I}_1$ then $\mathscr{I}_2 \in \mathscr{I}$.

In every part of this paper, the ideal topological space $(X, \tau, \mathscr{I})$ represented as ITS, open set of X as $o_s(X)$, closed set of X as $c_s(X)$, interior of a set A as $int(A)$, closure of a set A as $cl(A)$, $\mathscr{C}\ell^*$ as $\mathscr{C}\ell^*$, $\mathscr{C}\ell^*(int(\mathscr{C}\ell^*(\Gamma)))$ as $\mathscr{B}$, $\mathscr{C}\ell^*(int(\mathscr{C}\ell^*(I_1)))$ as $\mathscr{H}$, continuous as Cs, connected as Cd and mapping as Mpg.

Remark 2.2. The definition of β_I-open sets and topology τ^* utilized in this paper and be found in [3] and [4].

3 On $\tau^*\beta_I$-Open Sets in Ideal Topological Spaces

This section examined the idea of $\tau^*\beta_I$-open sets.

Definition 3.1. A subset A of a ITS is called $\tau^*\beta_I$-open if $\exists\ o_s(\Gamma)$ such that

Dr. J.Sebastian Lawrence , Associate Professor of Mathematics published a research paper titled "A NOTE ON τ ∗ βI-OPEN SETS IN IDEAL TOPOLOGICAL SPACES" Palestine Journal of Mathematics Vol 14(Special Issue II)(2025) , 318–322

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ON τ^* ii - OPEN SETS IN TOPOLOGICAL SPACES

S. Rajakumar, J. Sebastian Lawrence and B. Ananda Priya

MSC 2010 Classifications: 54C40, 14E20.

Keywords and phrases: τ^* ii-open sets, τ^* ii-closed sets, τ^* ii-continuous mappings, τ^* ii-compact sets, τ^* ii-connected sets.

The authors would like to thank the reviewers and editor for their constructive comments and valuable suggestions that improved the quality of our paper.

Corresponding Author: S. Rajakumar

Abstract In this study, we introduce a novel category of open sets termed τ^* ii-open sets within the context of topological spaces. We elucidate the core properties of τ^* ii-open sets and explore their interrelations with various other types of open sets, including α-open sets. Moreover, we present fresh findings concerning the continuity of mappings, compactness, and connectedness pertaining to τ^* ii within topological spaces.

1 Introduction

The inception of i-open sets traces back to the seminal work of Mohammed and Askandar [1, 2, 3] in 2012. Their contributions extended to exploring separation axioms and i-continuous functions. Subsequently, Mohammed and Abdullah [4, 5] defined "ii-open sets" as subsets of (X, τ) satisfying specific conditions. Dunham [6] introduced τ^*, a novel topology, along with the concept of the closure operator cl^*. This operator finds its definition in the $\cap$ of all g-closed sets encompassing A. W-closed sets and αw-closed sets were further elucidated by Sundaram, Parimala [7, 8], and their colleagues in 2017. The exploration of preopen sets and precontinuous functions in topological spaces was undertaken by Velico, Levine, and Njastad [9, 10, 11] building upon their groundwork. This paper introduces τ^* ii-open sets and explores their core properties, including τ^* ii-continuous maps, τ^* ii-connectedness, and τ^* ii-compactness.

Throughout this article, the topological space (X, τ) is denoted as TS, with $Os(X)$ representing its open sets, $Cs(X)$ its closed sets, $int(A)$ and $cl(A)$ representing the interior and closure of a set A, respectively. Additionally, τ^* ii -continuous maps are referred to as τ^* ii-Cs, τ^* ii-compactness is denoted as τ^* ii-Ct, τ^* ii-Connected as τ^* ii-Cd, Connected as Cd, cl^* as $\mathscr{C}\ell^*$ and mapping as Mpg.

2 On τ^* ii-Open Sets is Topological Spaces

Definition 2.1. A subset ξ of a TS is said to be τ^* ii-open set if $\exists$ an τ^*-open set Γ satisfying (1) $\Gamma \neq \emptyset$, X (2) $\xi \subseteq \mathscr{C}\ell^*(\xi \cap \Gamma)$ (3) $int(\xi) = \Gamma$.

Example 2.2. Let $X = \{l_1, l_2, l_3\}$ with $\tau = \{\emptyset, X, \{l_1\}\}$. Then $\{l_1\}$ is τ^* ii-$o_s(X)$.

Theorem 2.3. *Every $o_s(X)$ is τ^* ii-$o_s(X)$.*

Proof. Let ξ be a $o_s(\Gamma)$ satisfying $\xi \subseteq \mathscr{C}\ell^*(\xi \cap \Gamma)$ and $int(\xi) = \Gamma$. Since every $o_s(X)$ is τ^*-$o_s(X)$, ξ is a τ^*-$o_s(X)$. Choose $\Gamma = \xi$ as ξ is itself a τ^*-open set. Then $\mathscr{C}\ell^*(\xi \cap \Gamma) = \mathscr{C}\ell^*(\xi \cap \xi) = \mathscr{C}\ell^*(\xi)$. Since $\xi \subseteq \mathscr{C}\ell^*(\xi)$, $\xi \subseteq \mathscr{C}\ell^*(\xi \cap \Gamma)$. Also, since ξ is $o_s(\Gamma)$, $int(\xi) = \xi = \Gamma$. $\therefore \xi$ is τ^* ii-$o_s(X)$. □

Remark 2.4. The subsequent outcome indicates that the inverse aspect of the aforementioned theorem is incorrect. Consider $X = \{l_1, l_2, l_3\}$ with $\tau = \{X, \emptyset, \{l_1\}, \{l_1, l_2\}\}$. Here $\{l_1, l_3\}$ is τ^* ii-$o_s(X)$ but not $o_s(X)$.

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