

SKCET

Buzz



12th April - 17th April 2025



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Happy Reading





STUDENTS CERTIFICATION



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CSE | NPTEL ONLINE CERTIFICATION



Kavyaa S, I-CSE-B, successfully completed "Python for Data Science" course offered by IIT Madras, securing 91%. Being awarded with Elite + Gold certification, ranked among top 1% over 15251 certified candidates across country.

CSE | NPTEL ONLINE CERTIFICATION



JANANISSHRI R S | CSE B successfully completed "Python for Data Science" course offered by IIT Madras, securing 90%. Being awarded with Elite + Gold certification, ranked among top 1% over 15251 certified candidates across country.



PLACEMENT AND TRAINING



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SKCET | MoU & INTERNSHIP PARTNERSHIP WITH HCL

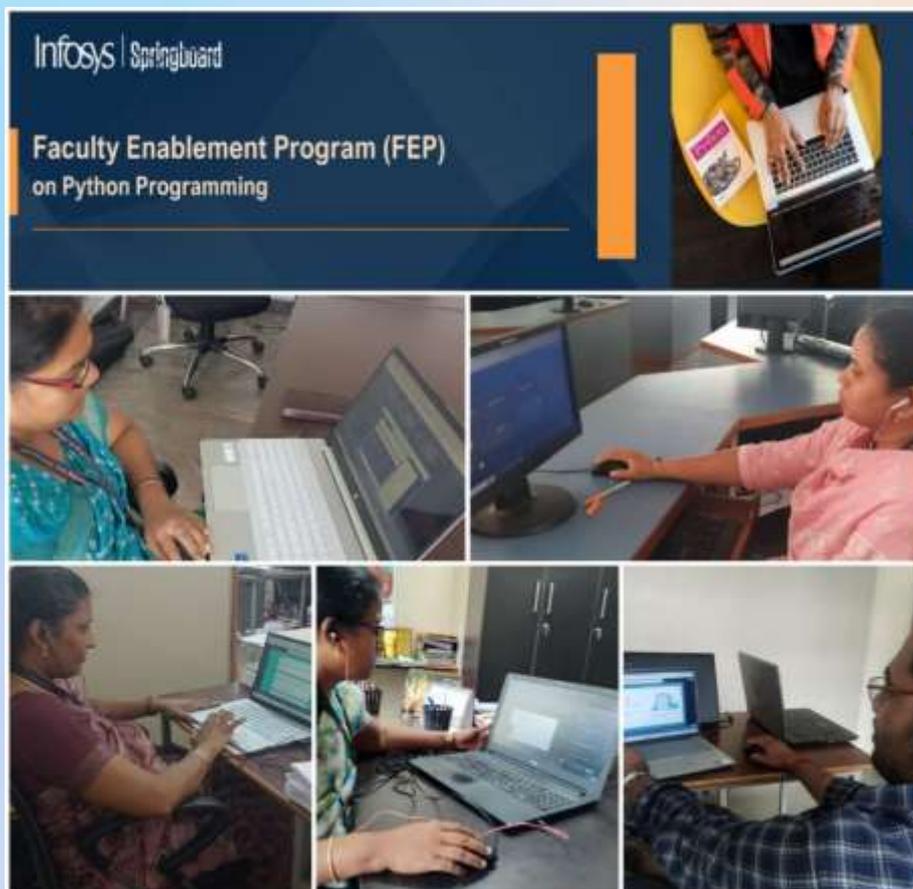


Dr. K. Porkumaran, Principal, SKCET warmly welcomed **Mr. Koteswaran Srinivasan**, Global Director – ERS Embedded Applications at HCL Technologies, for a productive and insightful discussion. The meeting focused on exploring potential collaborations through a Memorandum of Understanding (MoU) and internship opportunities for students, aiming to bridge industry-academia gaps and enhance experiential learning.

Meeting Highlights:

- 5th/6th semester electives from HCL Tech.
- Campus Adoption Program from HCL Tech for ECE and EEE students.
- Embedded systems' role in modern connected environments – smart devices, edge computing and IoT.
- Roadmap for setting up an Embedded Systems Innovation Lab and MoU
- Highlighted the importance of device driver development skills
- Capstone projects focusing on Embedded System Testing
- Network stacks & mobility platforms in ECE, EEE Syllabus

SKCET | INFOSYS SPRINGBOARD FEP ON PYTHON PROGRAMMING



Faculty members of SKCET attended three days online 3 days Infosys Springboard - Faculty Enablement Program (FEP) on Python Programming from 14.04.2025 to 16.04.2025.

It is an Infosys initiative to prepare faculty members with the latest teaching methods and use of technology to impart effective education.

Key Insights:

- Unlocking Python with real world examples
- Problem solving using Python
- Wonders with Python - Assignments and Hands-on session
- Brain Benders in Python

ECE | PLACEMENT TESTIMONIAL

I am Sudhakar S, a Final-year student pursuing **ECE** (2021–2025 batch) at SKCET. It is with immense pride and gratitude that I share my achievement of securing a placement at Trimble. This accomplishment is a reflection of SKCET's exceptional academic environment, technical exposure, and unwavering support.

SKCET has played a vital role in shaping my skills and knowledge through its industry-relevant curriculum and hands-on learning experience. In addition to academics, the focused training in communication, leadership, and analytical thinking has significantly enriched my personal and professional development. I am especially thankful to the committed faculty members and the placement cell for their continuous support and valuable guidance throughout my journey.

I extend my heartfelt gratitude to the Principal and all the faculty at SKCET for fostering an atmosphere of innovation and excellence. As I prepare to embark on this new chapter at Trimble, I am excited to apply the skills I have gained and embrace future challenges with confidence.

**SUDHAKAR S ,
ECE
TRIMBLE**



IT | PLACEMENT TESTIMONIAL

I am Tharakeshwari S from the IT department, batch of 2021-2025. My time at SKCET has been an extraordinary journey, offering countless opportunities to enhance both my technical and interpersonal skills. The expert sessions conducted by industry leaders were particularly insightful, helping me stay abreast of the latest developments in the technology landscape. Additionally, the focus on soft skills and personality development was pivotal in shaping my overall growth and boosting my confidence during the placement process. SKCET has truly provided an outstanding platform to hone my abilities and showcase my potential. I am immensely grateful to my parents for entrusting me with this institution. I sincerely appreciate the placement cell and the entire faculty team for their continuous guidance and support throughout my placement journey. I am proud to have secured a position at Tonik, and I wholeheartedly thank the Principal and all the faculty members at SKCET for helping me reach this significant milestone in my career.

**THARAKESHWARI S-
IT,
TONIK**



EEE | PLACEMENT TESTIMONIAL

I am happy to share that I have secured a position at EY and Mu Sigma, and I owe a great deal of gratitude to the Head of the Department, year coordinator, tutors and the faculty members of **EEE** department who provided me with unwavering support and guidance.

The knowledge and experiences I've gained under your mentorship have not only shaped my professional path but also inspired me to continually strive for excellence. As I step into this new chapter of my career, I am excited and deeply humbled by the opportunities that lie ahead. With the strong foundation you've helped me build, I am eager to contribute meaningfully to society and pursue a successful career. Thank you for being an integral part of my journey and for helping me to reach this point.

RANJITH KUMAR V
EEE
E&Y GDS, Mu Sigma





RESEARCH AND DEVELOPMENT



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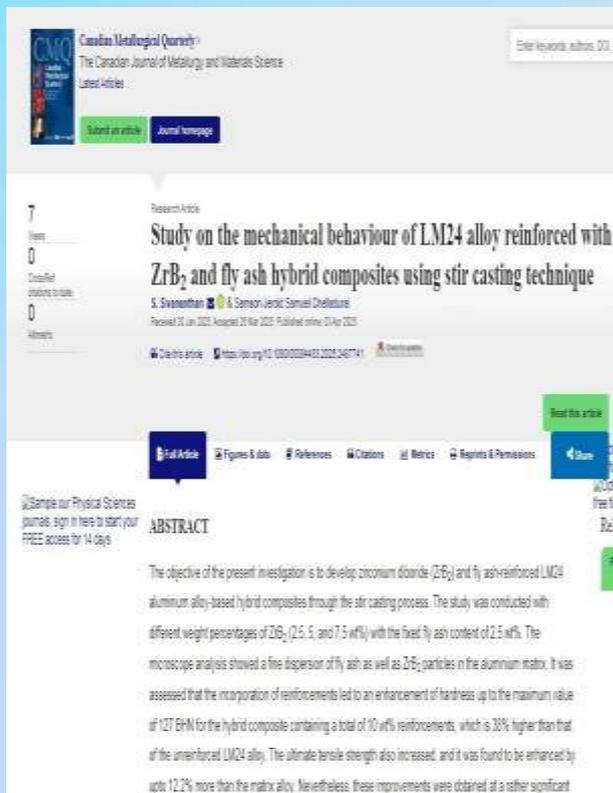


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R&D | PUBLICATION | MECH



Dr.C.Samson Jerold Samuel, Associate Professor of **Mechanical Engineering** published a paper "**Study on the mechanical behaviour of LM24 alloy reinforced with ZrB₂ and fly ash hybrid composites using stir casting technique**" in The Canadian Journal of Metallurgy and Materials Science, Canadian Metallurgical Quarterly, Taylor and Francis. The journal Impact Factor is 1.4, listed in Anna University Annexure 1, indexed in WoS and Scopus.

R&D | BOOK CHAPTER | ECE

Dr.M.RamKumar, Associate Professor, Department of **ECE** has published a book chapter titled "**The Industrial Revolution: Harnessing Embodied AI Systems**", in the book, Building Embodied AI Systems: The Agents, the Architecture Principles, Challenges, and Application Domains, Springer Nature Publishers. ISBN – 978-3-031-68256-8.



R&D | BOOK CHAPTER | AI & DS



Mr.Pugalendhi G.S, Assistant Professor, Department of **AI & DS** published a book chapter titled **“AI-Driven Dynamic Resource Management in Cloud Computing Environments”**, in the book, Recent Advances in Management and Engineering, Taylor and Francis Group Publishers.<https://doi.org/10.1201/9781003532026>, ISBN 9781003532026.

CAN YOU SOLVE?





FACULTY CERTIFICATIONS



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AI & DS | COURSERA CERTIFICATION



Mr.S.Senthil Kumar, Assistant Professor of **AI&DS** has completed a course “**Create social media content with Prezi**” offered by **Coursera** on **12.04.2025**.

AI & DS | CERTIFICATE OF EXCELLENCE

Mr.A.Wasim Raja, Assistant Professor of **AI&DS** has successfully completed module within “**Research design**” offered by **Researcher Academy** on **12.04.2025**.



MECH | NPTEL CERTIFICATION



Mr.J.Dhiyaneshwaran, Assistant Professor, **Mechanical Engineering** successfully completed **“Python for Data Science”** course with Elite certification.

MECH | NPTEL CERTIFICATION

Mr.K.N.Gunasekaran, Assistant Professor, **Mechanical Engineering** successfully completed **“Effective Engineering Teaching in Practice”** course with Elite certification.



ECE | FACULTY CERTIFICATION



Dr T Joby Titus, Associate Professor of **ECE** department has successfully completed Coursera certification with honors for the course “**IoT Devices**”.

CSE | FDP ON QUANTUM TECHNOLOGIES & APPLICATIONS

Ms. V.R. Azhaguramyaa, Assistant Professor, **CSE** has successfully completed the 40 hours (3-Credits equivalent) Faculty Development Programme jointly organized by various Academies. This programme is funded by MeitY and endorsed by DST-NQM/AICTE/UGC.



CSE | INFOSYS CERTIFICATION



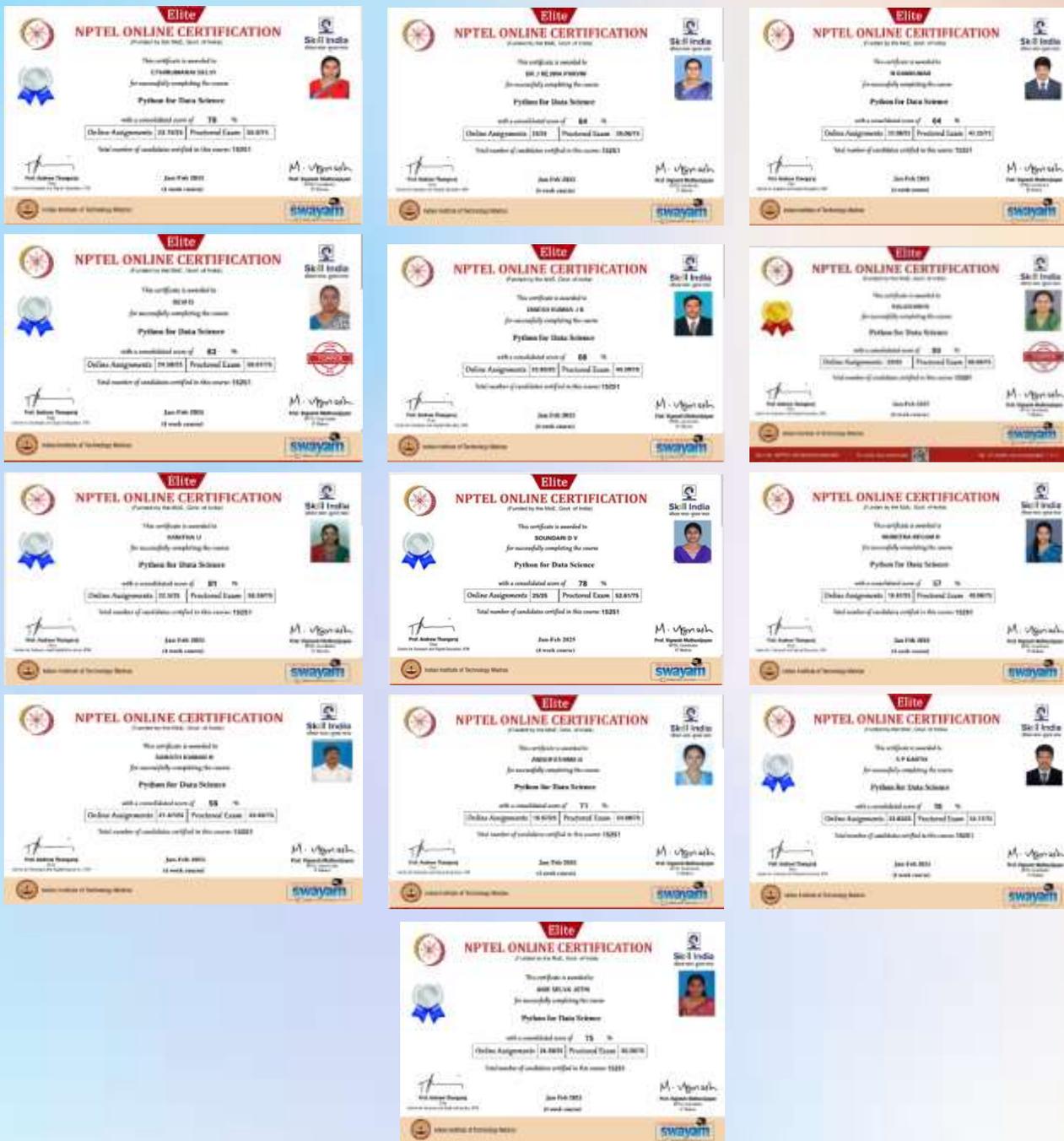
V.R.Azhaguramyaa, Assistant Professor, **CSE**, successfully completed Infosys Springboard Pragati: Path to Future - Cohort 3 conducted from December 2, 2024 to March 6, 2025. It is a 12-week program designed exclusively for women.

CSE | INFOSYS CERTIFICATION



Gowthamani R, Assistant Professor, **CSE** has successfully completed Infosys Springboard "**Basics of Python**" on April 12, 2025.

ECE | NPTEL CERTIFICATION



Following faculty members from the Department of **ECE** have successfully completed NPTEL certification for the course “Python for Data Science”.

Dr. C. Thirumarai selvi, Dr. J. Rejina Parvin, Dr. M. Ram Kumar, Dr. J. R. Dinesh Kumar, Ms. D. Devi, Ms. N. Kalaivani, Ms. U. Vanitha, Mr. R. Sarath Kumar, Ms. D. V. Soundari, Ms. B. Anish Fathima, Ms. H. Muneera Begum, Mr. S. P. Karthi and Ms. Anie Selva Jothi.



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Volume 3137, Issue 1
25 March 2025



INTERNATIONAL CONFERENCE ON COMPUTING, CIRCUITS, ENERGY AND MATERIALS ICCCEM-2022
15-16 December 2022
Nagercoil, India

RESEARCH ARTICLE | MARCH 25 2025

A novel hybrid power generation system based on renewable energy for battery bank storage

K. C. Ramya ; S. Kiruthika; D. Guna Priya; P. S. Gomathi; P. Vinoth Kumar

[+ Author & Article Information](#)

AIP Conf. Proc. 3137, 040018 (2025)

<https://doi.org/10.1063/5.02639822>

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 Tools

The growth of an entirely off-grid, dependable, and effective renewable energy (RE) system is a difficult task. It requires a big amount of storage space or a sizable generator, both of which result in high levels of intermittency and variability and high dump loads. This study describes an entirely off-grid, RE-based battery bank system that is stable and sustainable. The status of charge is taken into account based on the net energy deficit. At first, the application determines the size of the energy storage (ES) and the RE generators. Also, a working strategy and the model's operational range are established at the highest possible efficiency. When there is a large demand for energy, hydroelectric energy storage can be used, and when there is a low demand for energy, the battery provides enough energy. For charging and discharging, a reversible pump-turbine is employed to ensure that the ES system operates effectively. The system performance study takes into account the storage utilization factor, energy utilization ratio, and overall storage performance. It is noted that each of these elements has been increased by a factor of 100%, 20%, and 50%, respectively. Also, the ratio of demand and supply for the mix of renewable energy sources is compared. As compared to current state-of-the-art models, the suggested model performs better.

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The Journal of Chemical Physics
Chemical Physics Reviews

2024

EDITORS' CHOICE COLLECTION

 **READ NOW!**

Following faculty members and students from the Department of **EEE** have published a research paper in **International Conference on Computing, Circuits, Energy and Materials - ICCCEM-2022**, Volume 3137, Issue 1, AIP Conference Proceedings AIP conference, 25 March 2025.

EEE | CONFERENCE PRESENTATION

Name of the Author	Title of the Paper
Dr.K.C.Ramya & Dr.P.Vinothkumar	A Novel Hybrid Power Generation System based on Renewable Energy for Battery bank storage.
Dr.S.Sivaranjani,S.Sanjay Prakash,S.Sanjay,V.Saravanan & A.Suswanth Lakhan	Modular Multilevel Inverter fed BLDC motor speed control using Voice Command
Dr.S.Sivaranjani,P.Ram Prakash,G.Mithun Sreeram,R.Karthikeyan & M.Mano Prabhu	Smart Domestic Wireless Charger for Electric Vehicle
Dr.A.Radhika,N.Barath,R.M.Adithan, I.Chelladurai & M.Harish Kumar	Cold Storage Monitoring System
Dr.B.Karthikeyan, M.R.Arigarasudhan,P.Arulrajan,K.Akash & A.Baranidharan	Solar and Wind Energy Integrated System Frequency Control
Dr.G.Radhakrishnan,V.Karthick Raja, K.Karthikeyan, M.S.Kiran Chandran & M.Prabu	Multiple Disorder Detection GAIT Analysis using Machine Learning
Dr.J.Karthika,M.Kanishka,A.Mehala,B.Neha & M.Nisha	High Precise SOC and SOD Detection for Charge Controlled E-Vehicle
N.Subhashini,R.Prajith,A.Niranjan Vignesh, B.Naveen Kumar & S.C.Madhumitha	Design and Implementation of Coal Mine Safety Monitoring System
Ms. N.Subhashini,M.Tejaa,R.Muruges,Matheshwaran & Mohandas	Monitoring Industries using the Power of Internet and Automation
Ms. N.Subhashini,M.Srinithi,R.Sruthi,J.V.Swethaa,J.Subash & M.Shanbala	Hybrid Renewable Energy Charge controller with Automatic source switching technique
Dr.P.Vinothkumar, M.Kingsly Andrews, M.Monish,P.Nidhin raj & V.B.Nishanth	AI Tuned IoT Based Micro Grid for Smart Campus
Ms. R.Geethamani, K.K.Kesava Kumar,P.Koushick Balan,A.K.Madhumita, R.Kowsik & M.M.Krishnamanikanda Prabhu	Battery Management System to find Accurate Timing using Machine Learning
Ms. R.Geethamani, M.Shiva Sankar,N.Thangapandian,B.Wasim Akram & S.Yuvaraj	Smart Hydroponic System
Mr. R.Kavin, L.Santhiya,K.Saranya,S.Sneha & L. Vinolin Deena	Solar Fault Detection
Dr.Ramji Tiwari, R.Sailes Venkat,M.Sushil Bharathi, I.Thilip & P.Vinith Raj	Design and Development of Architecture & Safety features of Bore well drilling Machine
Dr.T.Kokilavani, A.Poovaragavan,D.R.Karthic,A.Lincyjoanofarc,K.Nithyasri & M.Ramana	Fault Detection in Induction Motor using ML
Dr.T.Kokilavani, V.Kavya,S.Megavardhini,P.Prithika & V.S.Rakshana	Portable Manure Spreading Trolley for Farmland
Ms. T.Malini, V.Pranesh Kumar,L.Praveen Kumar,M.Prithiv Kumar & S.Raghuram	Automatic Speed Control of DC Motors for high priority zones using Radio Frequency Communication



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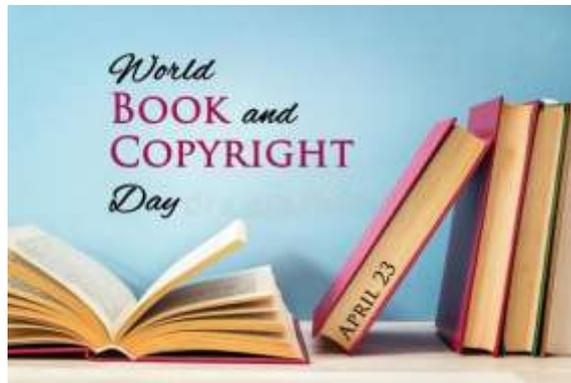
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WORLD BOOK AND COPYRIGHT DAY

World Book and Copyright Day is celebrated every year on **April 23rd** to honor the power of books and to promote reading, publishing, and the protection of authors' rights. The day is organized by **UNESCO (United Nations Educational, Scientific and Cultural Organization)** and is observed in many countries around the world.



The date was carefully chosen because it marks the death anniversary of several legendary writers, including **William Shakespeare**, **Miguel de Cervantes**, and **Inca Garcilaso de la Vega**. By selecting this symbolic day, UNESCO highlights the lasting impact that literature and authors have had on culture and society across the globe.

World Book and Copyright Day is a reminder for all of us children, students, adults, writers, and readers—to celebrate books not just as a source of knowledge, but also as a form of creative expression that deserves respect and protection. So, whether it's reading a favourite novel, visiting a library, or supporting local authors, this day encourages everyone to take part in the joy of reading and learning.

Surya nandhan R

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