



(इलेक्ट्रॉनिक मीडिया पर विश्वविद्यालय अनुदान आयोग का एक अंतर-विश्वविद्यालय केन्द्र)  
(An Inter-University Centre of University Grants Commission on Electronic Media)





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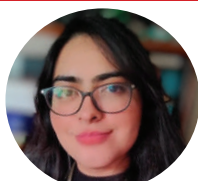
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प्रिय पाठकों,

सीईसी ने स्थापना के बाद से विभिन्न विषय क्षेत्रों में विद्यार्थियों को उच्चतम क्षमता वाले डिजिटल शिक्षण संसाधन प्रदान करने के लिए ठोस प्रयास किए हैं। हम शिक्षकों को प्रशिक्षित करने और विकसित करने की अपनी परिश्रमी प्रतिबद्धता के हिस्से के रूप में पूरे देश में कार्यशालाएँ और सेमिनार आयोजित करते हैं। यह आश्वासन देता है कि सीईसी के साथ कार्य करने वाला प्रत्येक विशेषज्ञ विभिन्न विषयों में शैक्षणिक प्रगति के बारे में सुविज्ञ है और डिजिटल प्रौद्योगिकियों में अच्छी तरह से निपुण है। सीईसी के 21 शैक्षिक मल्टीमीडिया अनुसंधान केंद्र हमारे विद्यार्थियों के लाभ हेतु शीर्ष स्तर के शैक्षिक कंटेंट तैयार करने के लिए सक्रिय रूप से कार्यरत हैं, जिसे यू-ट्यूब, डीटीएच चैनल, ई-कोर्सवेयर और मूक्स सहित विभिन्न प्लेटफॉर्मों के माध्यम से देखा जा सकता है।

देश की डिजिटल शैक्षिक प्रगति में सीईसी की भूमिका महत्वपूर्ण रही है। कौशल-आधारित व्यावसायिक शिक्षा प्रदान करने के लिए, सीईसी जनसंचार और वीडियो निर्माण, वित्तीय लेखांकन, इंटीरियर डिजाइनिंग, विज्ञापन, कंप्यूटर और नेटवर्किंग इत्यादि जैसे विभिन्न व्यावसायिक पाठ्यक्रमों के लिए मैसिव ओपन ऑनलाइन कोर्सेस (मूक्स) प्रदान करता है। स्वयं मूक्स के राष्ट्रीय समन्वयक होने के नाते, सीईसी अत्यधिक प्रसन्नता से मूक्स के जनवरी-जून 2024 सत्र में प्रवेश-नामांकन की घोषणा कर रहा है। सीईसी के प्रस्तावित सभी कोर्सेस स्नातक (यूजी) और स्नातकोत्तर (पीजी) शिक्षार्थियों के लिए यूजीसी के कोर्स करिकुला (पाठ्यक्रम) के अनुसार विकसित किए गए हैं।

सीईसी डिजिटल शिक्षा के उद्देश्य को आगे बढ़ाने के लिए दूरस्थ शिक्षार्थियों को गुणवत्तापूर्ण डिजिटल शैक्षिक कंटेंट प्रदान करने के लिए निरंतर रूप से कार्यरत रहेगा। हम सभी शिक्षार्थियों को कभी भी, कहीं भी (एनीटाइम, एनीवेयर) शिक्षार्जन की सुविधा प्राप्त करने हेतु मूक्स कोर्स में प्रवेश-नामांकन करने के लिए प्रोत्साहित करते हैं।

जय हिन्द!

Dear Readers,

Since its founding, CEC has made a concerted effort to offer students in a variety of subject areas, the highest calibre digital learning resources. We organise workshops and seminars all throughout the nation as part of our diligent commitment to train faculty members. This guarantees that every expert working with CEC is knowledgeable about academic advancements across a range of subjects and is well-versed in digital technologies. CEC's 21 Educational Multimedia Research Centres are actively working to create top-notch educational content that can be accessed through a variety of platforms, including YouTube, DTH Channels, e-Courseware, and MOOCs, for the benefit of our students.

CEC's role in digital educational advancements in the country has been pivotal. In order to impart skill-based vocational learning, CEC provides Massive Open Online Courses (MOOCs) for various vocational courses like Mass Communication & Video Production, Financial Accounting, Interior Designing, Advertising, Computer & Networking, etc., among others. Being the National Coordinator for SWAYAM MOOCs, CEC is happy to announce the opening of admissions to the JAN – JUNE 2024 Semester for MOOCs. All the courses offered by CEC are developed per UGC's course curricula for undergraduate (UG) & postgraduate (PG) students.

CEC shall continue to provide quality digital educational content to the remotest learners furthering the cause of Digital Education. We encourage all learners to enrol in MOOCs to enjoy learning anywhere and anytime!

Jai Hind!!

*जगत भूषण नड्डा*  
निदेशक - सी.ई.सी.

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# IMPLEMENTATION OF MOOCS FOR TRANSFORMATIVE HIGHER EDUCATION IN INDIA: AN OVERVIEW



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# M

OOCs can potentially revolutionize higher education in India, providing more accessible and affordable education. They can also provide a platform for professors and students to interact and exchange ideas, creating a more interactive and engaging learning environment. They can supplement traditional classroom instruction, helping improve overall student learning outcomes. MOOCs are also an excellent way for universities to reach a wider audience and increase their visibility. Additionally, they can be used to boost research and collaboration, increasing the potential for discoveries and advancements. They are a cost-effective alternative to traditional learning methods, allowing students to access the same courses at a fraction of the cost. MOOCs allow students to learn at their own pace, allowing them to tailor their education to their individual needs.

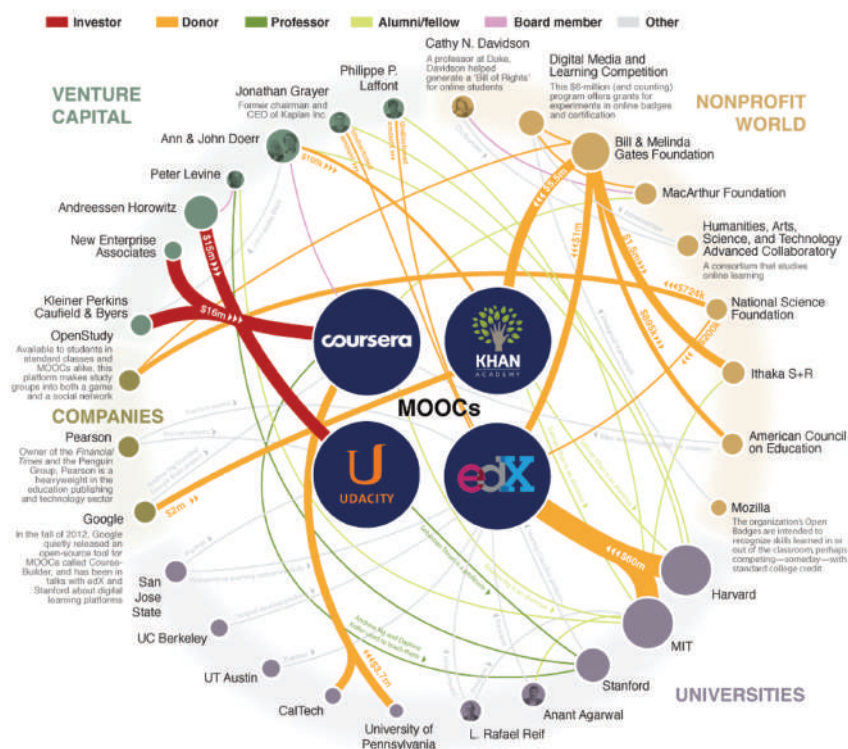


Fig 1: Major Players in the MOOC Universe (chronicle.com)



The above model (Fig. 1) indicates "Major Players in the MOOC Universe." These online platforms have democratized learning, making high-quality education accessible to people worldwide. Various players have emerged in the MOOC universe, each contributing to the growth and diversification of online education.

In addition, MOOCs are accessible to all, regardless of geographic location or economic status. They are also flexible enough to accommodate different learning styles, allowing students to receive the same quality education regardless of their background. This makes them a great alternative to traditional higher education, as it provides a platform for students to learn from the best experts in the field. Furthermore, MOOCs are relatively inexpensive, allowing students to access quality education at a fraction of the price. MOOCs are especially important in India, where access to higher education is often limited due to financial constraints. MOOCs provide students with an affordable and convenient way to access quality education. This can help them gain the skills they need to succeed in their chosen fields.

Besides, MOOCs can provide a platform for students to connect with their peers and experts from around the world. This can foster collaboration and innovation and strengthen the relationship between students and their teachers and mentors. This flexibility also makes it easier for learners with different schedules to attend classes, as MOOCs are typically available 24/7. Furthermore, MOOCs are often cheaper than traditional in-person courses, making them more accessible to a broader range of learners.

### **Responsible Factors Behind the Implementation of MOOCs in the Indian Context**

Massive Open Online Courses (MOOCs) have grown into a disruptive force in global education, offering flexible and often accessible educational opportunities. In India, MOOCs have been widely adopted, especially with the government's initiatives like SWAYAM, NPTEL, IITBombayX, etc. Despite their many advantages, MOOCs present several challenges in the Indian context which must be addressed to make them more effective and equitable.

#### **Accessibility Challenges:**

The digital divide hinders access to MOOCs in

India. Millions of Indians still lack reliable internet access and digital devices, limiting their ability to participate in online courses.

#### **Language Barriers:**

Most MOOCs are offered in English, which is not the primary language for many Indians. Language barriers limit the accessibility of MOOCs, particularly in rural areas.

#### **Quality Concerns:**

MOOCs often need more personal interaction and support found in traditional classrooms. This can lead to a high dropout rate and a lack of motivation to complete courses.

#### **Assessment Integrity:**

Ensuring the authenticity of assessments in MOOCs can be challenging. Copying and cheating on assignments and exams can undermine the quality and credibility of MOOC certificates.

#### **Certification Issues:**

Although MOOCs offer certificates upon completion, these certificates are not universally recognized by Indian employers and academic institutions. This can reduce the value of MOOCs as a credential.

#### **Industry-Relevance:**

Some MOOCs may not align with the specific needs of the Indian job market, making it difficult for learners to find employment after completing a course.

#### **Pedagogical Challenges:**

**Passive Learning:** MOOCs often rely on video lectures and quizzes, promoting a passive learning style. This may not be effective for all learners, especially in a diverse educational context like India.

#### **Lack of Practical Experience:**

MOOCs often lack hands-on experiences or practical components essential for many professional fields.

### **Proposed Solutions**

#### **Bridging the Digital Divide:**

The government and organizations should improve internet connectivity and provide affordable devices to underserved communities.

#### **Multilingual Content:**

Encourage the development of MOOCs in regional languages to enhance accessibility.

### Support and Mentorship:

MOOC platforms can provide more comprehensive support and mentorship to reduce dropout rates and enhance learning outcomes.

### Enhanced Assessment Security:

Implement robust proctoring solutions to maintain the integrity of assessments.

### Credential Recognition:

Collaborate with Indian regulatory bodies and employers to ensure the recognition and acceptance of MOOC certificates.

### Diverse Pedagogy:

Promote diverse teaching methods and interactive elements in MOOCs to engage a broader range of learners.

While MOOCs offer numerous advantages, they also present several challenges in the Indian context, such as accessibility issues, quality concerns, certification challenges, and pedagogical limitations. To harness the full potential of MOOCs in India, stakeholders must work to address these challenges by implementing the proposed solutions. By doing so, MOOCs can become a more inclusive and effective tool for expanding educational opportunities in the country.

## MOOCs for Quality Education and Sustainable Development Goal 4

SDG 4 is concerned with making sure that all students have the knowledge and abilities required to support sustainable development. MOOCs can significantly contribute to this goal by providing access to high-quality educational content. Access to education is a crucial aspect of SDG 4.3. By leveraging technology and the internet, MOOCs can make higher education accessible to a more diverse and global audience. Sustainable Development Goal

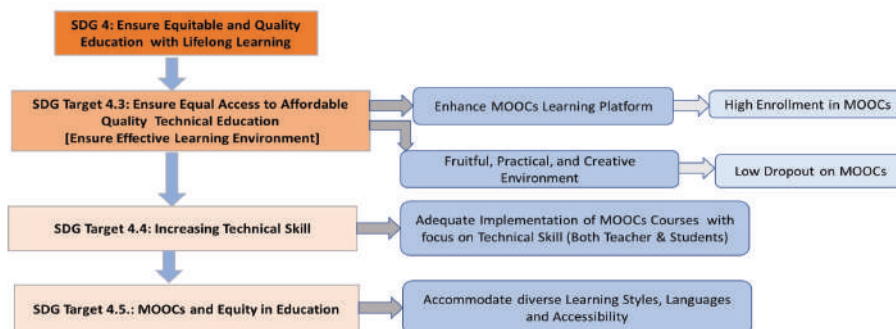


Fig 2: Enhancing MOOCs in Higher Education through Sustainable Development Goal 4.

Disclaimer: Views expressed in the article are personal.

(SDG) Target 4.4, aims to significantly increase the proportion of children and adults with the necessary skills, including technical as well as vocational abilities, for job opportunities, decent work, and innovation. The rise of Massive Open Online Courses (MOOCs) has revolutionized the way education is delivered and has emerged as a powerful tool to help address the challenges posed by SDG Target 4.4. On the other hand, SDG target 4.5 emphasizes the importance of achieving equal access to education and promoting lifelong learning for all. They are often designed to accommodate diverse learning styles, languages, and accessibility needs, thus promoting inclusivity. Moreover, MOOCs allow learners to acquire new skills and knowledge throughout their lives, aligning with the concept of lifelong learning.

In conclusion, the emergence of Massive Open Online Courses (MOOCs) has brought significant transformative potential for higher education in India. MOOCs have played a pivotal role in upskilling and reskilling the Indian workforce and contributing to the country's economic growth. They have enabled students to explore various subjects, experiment with interdisciplinary studies, and pursue their educational interests more freely than ever before. While MOOCs offer tremendous opportunities, they also present challenges that must be addressed. Issues related to certification credibility, the digital divide, and the need for personalized learning experiences must be addressed to fully harness the potential of MOOCs in India.

In light of these considerations, MOOCs are a transformative force in higher education, reshaping the learning landscape in India and offering a promising path to address the nation's educational challenges. As technology and infrastructure continue to evolve, MOOCs can further revolutionize education in the country, ultimately helping foster a more knowledgeable, skilled, and innovative society. The future of transformative higher education in India undoubtedly includes a prominent role for MOOCs as they continue to adapt and improve, serving as a cornerstone of accessible, affordable, and high-quality learning experiences.



# FRAMING THE FUTURE: DIGITAL PHOTOGRAPHY EDUCATION ON THE SWAYAM PLATFORM



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n recent years, the ubiquity of smartphones equipped with high-quality cameras has propelled digital photography into the spotlight, transforming it into a pervasive and impactful facet of modern society. The instant sharing of visual experiences has not only popularized photography but also elevated it to a profession of choice for many. However, the true potential of digital photography can only be harnessed through proper education and training. Addressing this need, the SWAYAM platform, an initiative by the Government of India, emerges as a crucial tool for imparting essential digital photography education.

Advancements in technology have democratized photography, placing powerful cameras in the hands of individuals across the globe. This accessibility has fueled its popularity as both a creative outlet and a professional pursuit. Nevertheless, the distinction between casual hobbyists and proficient

photographers lies in the quality of education and training they receive. The SWAYAM platform recognizes this necessity and strives to bridge the education gap for aspiring photographers.

## **SWAYAM: Fostering Photography's Future**

The SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds) platform, conceived by the Government of India, embarks on the mission of democratizing education. As the demand for skilled photographers escalates, SWAYAM steps in as a visionary solution, offering comprehensive digital photography courses. This platform's significance extends beyond basic accessibility – it functions as a catalyst in shaping the future of photography by equipping learners with the necessary skills and insights.

By housing digital photography courses, SWAYAM aligns with the evolving educational landscape. This platform leverages technology to disseminate knowl-

edge to diverse learners, transcending geographical limitations. Moreover, SWAYAM's self-paced learning approach accommodates the busy lives of modern learners, enabling them to harmonize their education with other commitments. As technology continues to advance, SWAYAM's adaptability ensures that its content remains current and relevant.

In an era where the art of photography is at the fingertips of millions, the quality of education emerges as the critical differentiator between casual enthusiasts and adept professionals. The SWAYAM platform's embrace of digital photography education signifies not just accessibility, but also the empowerment of a new generation of photographers armed with knowledge, creativity, and ethical considerations. As SWAYAM reshapes photography's educational landscape, it becomes an indispensable tool for those aspiring to capture and convey the world's visual narratives.

### **Revolutionizing Education: Unveiling the SWAYAM Advantage**

SWAYAM, the "Study Webs of Active-Learning for Young Aspiring Minds," is a pioneering initiative launched by the Indian Government. Its primary goal is to provide free online courses across various subjects, including digital photography. Collaborating with esteemed educational institutions, SWAYAM employs technology to make top-tier education available to learners regardless of location or economic background. Developed by the Indian government, SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) serves as a digital platform for offering free, quality education to learners nationwide. Catering to diverse subjects, including photography, SWAYAM dismantles geographical and financial barriers, making digital education accessible to all.

SWAYAM, or the "Study Webs of Active-Learning for Young Aspiring Minds," represents a transformative governmental endeavour. It provides free online courses, including digital photography, by partnering with prestigious educational institutions. Through technological innovation, SWAYAM erases the limitations of geography and economic status, enabling widespread access to high-quality education.

### **Nurturing Photographic Proficiency: The Education Imperative**

Digital photography education is a cornerstone for aspiring photographers, cultivating the technical finesse and artistic insight needed for impactful imagery. Topics span camera operation, composition, lighting, editing, and post-processing, collectively empowering learners to effectively communicate through visuals.

More than skill acquisition, digital photography education embraces ethics and copyright awareness, pivotal in today's digital landscape. It promotes responsible image use, privacy respect, and intellectual property safeguarding. Thus, education encompasses technical mastery and holistic artistic comprehension.

Digital photography's essence lies in its blend of technical precision and artistic intuition. Education through platforms like SWAYAM equips learners with skills and values, enabling them to utilize photography for personal expression and professional growth. Ethical grounding complements technical prowess in this digital era.

### **Elevating Photography Education through SWAYAM: Enhanced Advantages**

- **Accessibility Unleashed:** SWAYAM's online courses break geographical barriers, ensuring that anyone with an internet connection can access digital photography education. This inclusivity facilitates a diverse influx of learners, enriching perspectives and experiences.
- **Learning on Your Terms:** The self-paced structure of SWAYAM empowers learners to tailor their education to their convenience. This adaptability is especially advantageous for photography, allowing learners to experiment and implement concepts in their own time.
- **Guidance from Experts:** Courses on SWAYAM are curated and taught by industry leaders, granting learners insights and wisdom otherwise inaccessible. This exposure to professionals enhances the quality of education and prepares learners for real-world scenarios.
- **Fostering Collaborative Learning:** SWAYAM fosters peer interaction through discussion forums and collaborative projects. This sense of community enables learners to share experiences, critique



work, and collectively evolve their artistic vision.

- **Amplified Benefits: SWAYAM's Impact on Photography Education:**

- a) Inclusivity Transcended: Overcoming geographical barriers to embrace diverse perspectives.
- b) Flexibility Empowered: Self-paced learning encourages hands-on experimentation.
- c) Expertise Enriched: Industry professionals guide learners, elevating education quality.
- d) Community Nurtured: Collaborative projects cultivate a dynamic photographer network.

**Dynamic Evolution and Industry Integration:**

The unfolding future of digital photography education on SWAYAM holds immense promise for both learners and the industry. As the platform progresses, it can seamlessly incorporate emerging trends and update course content to match. Advanced techniques such as computational photography and virtual reality can be seamlessly integrated, ensuring learners remain at the forefront.

**Bridging Education and Practice through Collaboration:**

SWAYAM's potential extends to fostering partnerships with industry players, offering internships, workshops, and networking avenues. This symbiotic relationship bridges the gap between education and real-world application, equipping learners with tangible experience.

**Holistic and Interactive Learning Environment:**

SWAYAM's future envisions comprehensive and expert-curated courses in digital photography. Learners gain insights into camera settings, composition, lighting, and storytelling. Interactive tools, quizzes, and assignments facilitate hands-on experiences, while a collaborative approach encourages peer learning and critique.



*Disclaimer: Views expressed in the article are personal.*

**Empowering Photography as a Career:**

Digital photography's power as a career avenue finds affirmation through SWAYAM. Learners acquire the skills to communicate ideas through visual mediums effectively. Opportunities in fields like photojournalism, fashion, advertising, and documentary photography open up.

**Continuous Evolution for Relevance:**

To ensure the courses' perpetual relevance, SWAYAM must collaborate with industry leaders and professionals. This collaboration guarantees that learners stay in sync with the rapidly evolving landscape of digital photography, remaining competitive and cutting-edge.

**A Promising Horizon Awaits:**

- a) Adaptive Learning: Trends like computational photography seamlessly integrated.
- b) Industry Synergy: Partnerships offering practical experience.
- c) Ongoing Rejuvenation: Regular updates maintain learners' currency.

**Shaping Tomorrow's Photographers: SWAYAM's Vision**  
SWAYAM's digital photography education holds transformative potential, moulding the future of photography. By providing accessible, all-encompassing learning opportunities, learners acquire technical mastery, artistic insight, and ethical sensibilities.

Learners armed with technical prowess, artistic vision, and ethical understanding create impactful visual narratives. SWAYAM's innovative education fosters a new breed of photographers equipped to capture complexities and spotlight social issues.

Embracing digital photography education on SWAYAM is paramount as technology evolves. This inclusive platform nurtures talent and propels the photography industry forward.

In conclusion, the transformative force of SWAYAM in digital photography education equips individuals with essential skills and knowledge. Its accessibility, flexibility, and interactive approach enable aspiring photographers to flourish. As technology drives change, embracing SWAYAM's education is pivotal for nurturing talent and advancing the field.



## सीईसी और ईएमआरसी, चेन्नई द्वारा स्वयं मूक्स पर दो दिवसीय राष्ट्रीय कार्यशाला का आयोजन

सीईसी और ईएमआरसी चेन्नई, अन्ना विश्वविद्यालय ने संयुक्त रूप से 23 और 24 नवंबर, 2023 को "मूक्स के माध्यम से प्रभावी शिक्षण हेतु डिजिटल कौशल" पर दो दिवसीय राष्ट्रीय स्तर की कार्यशाला का आयोजन किया। डिजिटल शिक्षा पर यह 2 दिवसीय कार्यशाला उन अध्यापकों, शिक्षकों और व्यावसायिकों के लिए डिज़ाइन की गई थी जो डिजिटल शिक्षा के क्षेत्र में अपने कौशल और ज्ञान को उन्नत करना चाहते हैं। प्रो. जगत भूषण नड्डा, निदेशक, सीईसी ने डॉ. एस. अरुलचेलवन, निदेशक, ईएमआरसी, अन्ना विश्वविद्यालय के साथ मिलकर कार्यशाला का उद्घाटन किया।



प्रो. जे. प्रकाश, कुलसचिव, अन्ना विश्वविद्यालय द्वारा अभिनंदन भाषण दिया गया और मुख्य भाषण की अध्यक्षता प्रो. एंड्रयू थंगराज, एनपीटीईएल समन्वयक, आईआईटी-मद्रास ने की थी।

दो दिनों की अवधि में विभिन्न सत्रों में मूक्स के निर्माण और विस्तार पर गंभीरता से चर्चा हुई। तकनीकी सत्रों को अन्ना विश्वविद्यालय, आईआईटी-मद्रास, एनआईटीटीटीआर और उद्योग जगत के विभिन्न विशेषज्ञों द्वारा संभाला गया। समापन भाषण के दौरान मुख्य अतिथि, प्रो. एच. देवराज, पूर्व उपाध्यक्ष, यूजीसी ने अपने विचार और बहुमूल्य अंतर्दृष्टि साझा की। डॉ. शतरुद्ध, रिसर्च साइंटिस्ट, सीईसी द्वारा धन्यवाद प्रस्ताव दिया गया। 70 से अधिक संकाय और अनुसंधान विद्वानों ने भाग लिया और इस कार्यशाला से लाभान्वित हुए।



From Left to Right: Dr. L. Suganthi, Dean, College of Engineering Guindy, Anna University; Prof. Andrew Thangaraj, Prof. Jagat Bhushan Nadda; Director, CEC, Prof. J.Prakash, Registrar, Anna University; Dr.S.Arulchelvan, Director, EMRC, Chennai

बाएं से दाएं: डॉ. एल. सुगंधी, अधिष्ठाता, कॉलेज ऑफ इंजीनियरिंग गिंडी, अन्ना विश्वविद्यालय; प्रो. एंड्रयू थंगराज, प्रो. जगत भूषण नड्डा; निदेशक, सीईसी, प्रो. जे. प्रकाश, कुलसचिव, अन्ना विश्वविद्यालय; डॉ. एस. अरुलचेलवन, निदेशक, ईएमआरसी, चेन्नई



## CEC and EMRC Chennai organize 2-day National workshop on SWAYAM MOOCS

CEC and EMRC Chennai, Anna University, jointly organized a two-day National level workshop on "Digital skills for effective teaching through MOOCs" on the 23rd and 24th of November, 2023. This 2-day workshop on Digital Education was designed for teachers, educators and professionals who are looking to upgrade their skills and knowledge in the field of digital education.

Prof. J.B. Nadda, Director, CEC, inaugurated the workshop along with Dr S. Arulchelvan, Director, EMRC Chennai, Anna University. The Felicitation Address was given by Prof. J. Prakash, Registrar, Anna University and the Keynote Address was presided by Prof. Andrew Thangaraj, NPTEL Coordinator, IIT-Madras.

Over a span of 2 days, various sessions went in depth on the creation and dissemination of MOOCs. The technical sessions were handled by various experts from Anna University, IIT-Madras, NITTTR, and those from the industry. Prof. H. Devaraj, former UGC Vice-Chairman, Chief Guest, shared his thoughts and valuable insights during the valedictory speech. The vote of thanks was delivered by Dr. Shatrudha, Research Scientist, CEC. More than 70 faculty members and research scholars participated and benefited by this workshop.



Centre: Prof. J. B. Nadda felicitates Prof. H. Devraja, former UGC Vice-Chairman during the valedictory function.

केंद्र: प्रो. जे. बी. नड्डा ने समापन समारोह के दौरान प्रो. एच. देवराज, पूर्व उपाध्यक्ष, यूजीसी को सम्मानित किया।



Subject Expert  
Dr. Priti Jagwani

## Affiliation

Assistant Professor  
Department of Computer  
Science, Aryabhatta college,  
University of Delhi.

Title

## Transaction Management



**Scan for lecture**

### About the Expert

Dr. Priti Jagwani is an alumnus of IIT Delhi. She has received her MTech and PhD from IIT Delhi. Currently she is serving as assistant professor in dept. of computer science, Aryabhatta college, University of Delhi. She has served the academia for more than 15 years. She has published many papers with Springer, IEEE, IGI Global and Inderscience publishers. She has also successfully completed Innovation project of University of Delhi and a project for MGNCRE, Ministry of Education. She is also working as a reviewer for many conferences of repute and presented her research papers in international conferences at Japan and China. She is the recipient of prestigious Top 50 Women in Education Leaders award (2019) by World Education Congress. She has been associated with National Council for Promotion of Sindhi Language (NCPSL) as Computer Expert. Under this initiative she has delivered many talks for enrichment of Sindhi Language.

### Excerpt from the Lecture

Transaction management is a crucial aspect of database management systems (DBMS). Transaction is a collection of operations that form a single logical unit of work. These transactions operate on various data items. It provides a guarantee that all operations either succeed or fail together.

The lecture demonstrated ACID properties as follows:

- **Atomicity:** All operations within a transaction are treated as a single atomic unit; either all succeed, or all fail.
- **Consistency:** The transaction transforms the database from one valid state to another.
- **Isolation:** Transactions are isolated from each other, preventing interference between concurrent transactions.
- **Durability:** Once committed, the changes made by a transaction are permanent even in case of system failures.

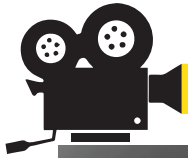
Various states of the transaction committed, aborted, active, failed etc. are also described. Also concepts of storage structure relevant to transaction management are highlighted.

### Learning Objectives

- To gain thorough understanding of transaction concepts and their importance in a DBMS.
- Define the concept of a transaction and its characteristics.
- Study ACID properties of transactions namely Atomicity, Consistency, Isolation, and Durability and their implications for data integrity.
- Analyze the effects of concurrency on database consistency.
- Identifying role of transaction logs in ensuring data integrity and recovery.



# Citation of 14 th Prakriti International Documentary Films Festival



## BIO TOILETS - SUSTAINABLE SOLUTION FOR SANITATION



Kailash Bhutani



Scan for documentary

**SYNOPSIS -** How to dispose human faeces in a scientific way that protects human health and environment? Bio toilets are the answer. Bio toilets treat human waste at source. Water and biogas are the only discharges that can be put to many uses, if desired. In India, development of bio-toilets is a great success story scripted by premier scientific institution, the Defence Research and Development Organization, DRDO. Bio toilets offer a sustainable, simple and safe solution to this demanding challenge. Bio toilets are based on bio-digester technology originally developed by DRDO's research lab in Gwalior, Madhya Pradesh. Currently more than 2.40 lakh bio-digesters are operational in passenger coaches covering more than 95% of the railway fleet. Bio toilets are poised to transform sanitation scenario of the country.

## SCREENING

CATEGORY  
**ENVIRONMENT**

English | 2020 | 00:23:50

### Director's/Producer's Profile

Associated with the industry for the last 35 years. Actively working in the industry for the last 22 years. Post-graduate with distinction in Electronic Media from IP University. Post-graduation in different Management streams from Bhartiya Vidya Bhawan, New Delhi. Winner of many national and international competitions.

Creator of 'Jago Grahak Jago' Slogan Member FTPA Delhi, WIFTA Mumbai and Press Club of India.

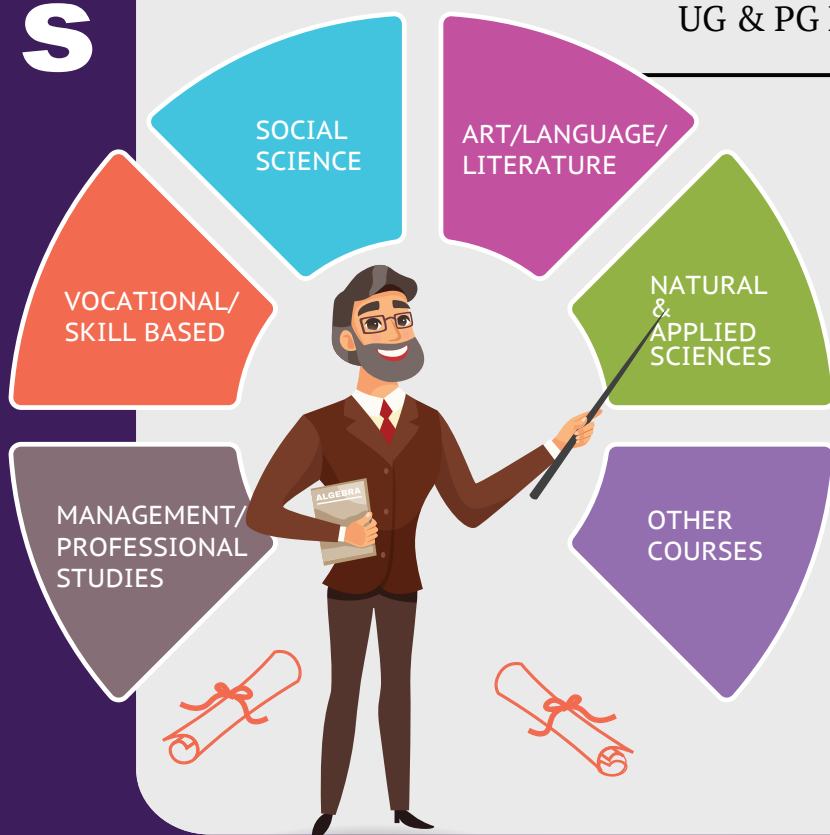
Jury Member – Woodpecker Film Festival 2013, Annual Media Festival – Parampara 2014 (Indraprastha College for Women)

Jan.-June 2024  
S E M E S T E RCEC is offering **117 Undergraduate** and  
**37 Postgraduate** Non-technology Courses**CEC  
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EDUCATION COURSES**

Consortium for Educational Communication (CEC)  
National Coordinator  
UG & PG Non-technology Courses on SWAYAM



As National Coordinator, CEC offers online UG and PG courses (MOOCs) on the SWAYAM Platform. SWAYAM is an initiative of Govt. of India for providing quality education to each and every learner of the country through the platform, starting from school level to post graduate level. CEC is offering 117 Undergraduate (UG) and 37 Postgraduate (PG) Non-technology Courses in January-June 2024 Semester. Course Details can be accessed from the links given below:

**List of Courses for Jan. - June 2024 Semester**

Sr. No.	Level of the Course	Course Title	Name of the Course Coordinator	Start date	End date	Host University	No of Credits
1	UG	Real Analysis	Prof. Surajit Borkotokey	15.01.2024	30.04.2024	Dibrugarh University	5
2	UG	Programming in Python	Dr. Rizwan Rehman	15.01.2024	30.04.2024	Dibrugarh University	4
3	PG	Direct Tax Laws and Practice	Subhrangshu Sekhar	15.01.2024	30.04.2024	Tezpur University	4
4	UG	English Communication	Dr.Kshema Jose	15.01.2024	30.04.2024	EFLU Hyderabad	2
5	UG	Shakespeare to Milton: A Study of British Literature	Dr. Jai Singh	24.01.2024	30.04.2024	EFLU Hyderabad	5
6	UG	Diet Management in Health and disease	Dr Vipparti Vijaya Lakshmi	15.01.2024	30.04.2024	EFLU Hyderabad	3
7	UG	Intellectual Property Rights and Competition Law	Prof. (Dr.) G. B. Reddy	15.01.2024	30.04.2024	EFLU Hyderabad	3
8	UG	Apparel Designing	Dr. A. Sarada Devi	15.01.2024	30.04.2024	EFLU Hyderabad	4
9	UG	Proficiency Course in German	Dr Nishant K Narayanan	15.01.2024	30.04.2024	EFLU Hyderabad	5
10	UG	Child Development	Mrs V Kavitha Kiran	12.01.2024	30.04.2024	EFLU Hyderabad	3
11	UG	Applied Fields of Psychology	Dr. P. Swathi	10.01.2024	30.04.2024	EFLU Hyderabad	5
12	UG	Indian Writing in English-1	Dr.V.Rajunayak	15.01.2024	30.04.2024	EFLU Hyderabad	4
13	UG	Basic Psychological Processes	Dr NDS NAGA SEEMA	15.01.2024	30.04.2024	EFLU Hyderabad	4
14	PG	ANIMATIONS	Dr. Abhishek Kumar & Dr. Achintya Singhal*	15.01.2024	30.04.2024	Banaras Hindu University, Varanasi	4
15	PG	Counseling Psychology	Dr Mamta Sharma	15.01.2024	30.04.2024	Punjabi University, Patiala	4
16	PG	Food Microbiology and Food Safety	Dr Tejpal Dhewa	15.01.2024	30.04.2024	Central University of Haryana, Mahendergarh	4
17	UG	Hindi Sahitya ka Itihaas	Prof Subhash Chander	15.01.2024	30.04.2024	Kurukshetra University, Kurukshetra	4
18	PG	Introduction to Public Administration	Prof Ajmer Singh Malik	15.01.2024	30.04.2024	Chaudhary Devi Lal University, Sirsa	4
19	PG	Performing Arts & Allied Subjects	Prof.(Dr.) Yogesh Gambhir	15.01.2024	30.04.2024	Punjabi University, Patiala	3
20	PG	Creative Painting	Dr. Alka Chaddha	15.01.2024	30.04.2024	Dayalbagh Educational Institute (Deemed	4
21	PG	Organisation Behaviour	Prof.(Dr.) Vishal Kumar	15.01.2024	30.04.2024	Panjab University, Chandigarh	4
22	PG	Biostatistics and Mathematical Biology	Prof. Felix Bast	15.01.2024	30.04.2024	Central University of Punjab, Bathinda	4
23	PG	Digital Marketing	Dr Tejinderpal Singh	15.01.2024	30.04.2024	Panjab University, Chandigarh	4
24	PG	Solid and Hazardous Waste Management	Prof. Vinod Kumar Garg	15.01.2024	30.04.2024	Central University of Punjab, Bathinda	4
25	PG	Research Methodology	Prof.G.S.Bajpai	15.01.2024	30.04.2024	National Law University, Delhi	4
26	UG	Mathematical Methods for Economics-I	Prof. Anupama	15.01.2024	30.04.2024	Punjabi University, Patiala	5
27	UG	General Microbiology	Dr. Ishwori Laitonjam	15.01.2024	30.04.2024	Manipur University	4
28	UG	Human, Rights Law and Criminal Justice	Dr. N. Pramod Singh	15.01.2024	30.04.2024	Manipur University	4
29	UG	Cell Biology	Dr. K. Sanatombi	15.01.2024	30.04.2024	Manipur University	4
30	UG	Diseases of Horticultural Crops and their Management	Dr. Bireshwar Sinha	15.01.2024	30.04.2024	Manipur University	3
31	UG	Sports Administration and Management	Dr. M. Chourjit	15.01.2024	30.04.2024	Manipur University	3
32	UG	Nutritional & Clinical Biochemistry	Dr. Senjam Sunil Singh	15.01.2024	30.04.2024	Manipur University	4
33	UG	Introduction to Marketing Management - 1	Dr. Nambram Amulkumar	15.01.2024	30.04.2024	Manipur University	3
34	UG	Immunology	Dr. Reena Haobam	15.01.2024	30.04.2024	Manipur University	4
35	UG	Statistical Methods for Psychological Research - I	Dr. Jitendra Kumar Kushwaha	15.01.2024	30.04.2024	Manipur University	5
36	UG	Youth, Gender and Identity	Dr. Naziya Hasan	15.01.2024	30.04.2024	Manipur University	4
37	UG	History of India-I( Ancient India )	Dr. Bhabananda Singh Takhellambam	15.01.2024	30.04.2024	Manipur University	5
38	UG	Social Formations and Cultural Patterns of the Medieval World	Dr. Shilleima Chanu Naoroibam	15.01.2024	30.04.2024	Manipur University	5

**List of Courses for Jan. - June 2024 Semester**

Sr. No.	Level of the Course	Course Title	Name of the Course Coordinator	Start date	End date	Host University	No of Credits
39	UG	United Nations and Global Conflicts	Dr. Arambam Noni Meetei	15.01.2024	30.04.2024	Manipur University	5
40	UG	Retail and Channel Management	Dr. Yamini Karmarkar and Dr. Geeta Nema	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	4
41	UG	Basics of Photography	Dr. Narayan Patidar	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	3
42	UG	Information Security and Cyber Forensics	Prof. Pratosh Bansal	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	4
43	UG	Macroeconomics	Dr. Vishakha Kutumbale	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	5
44	UG	Financial Accounting	Dr. Manish Sitlani	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	5
45	UG	Environmental Studies	Dr. Monica Jain	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	2
46	UG	Micro economics	Dr. M. Vasim Khan	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	5
47	UG	Understanding Political Theory	Dr. Ashwini Sharma	15.01.2024	30.04.2024	Devi Ahilya Vishwavidyalaya, Indore	5
48	UG	Petrology	Prof. H. Thomas	01.01.2024	30.04.2024	Dr. Harisingh Gour Vishwavidyalaya	4
49	UG	Talon ka Soundarya Shastra	Dr. Rahul Swarnkaar	01.01.2024	30.03.2024	Dr. Harisingh Gour Vishwavidyalaya	3
50	UG	Photo Geology and Remote Sensing	Prof. R.K. Rawat	01.01.2024	28.02.2024	Dr. Harisingh Gour Vishwavidyalaya	2
51	PG	Bhasha Proudhyogiki ka Parichay	Dr. C. Jaya Sankar Babu	16.01.2024	30.04.2024	Pondicherry University	5
52	UG	Algebra	Dr.T.Asir	18.01.2024	30.04.2024	M.K.University	5
53	UG	Sociology of India - 1	Dr.B.Geetha	18.01.2024	30.04.2024	M.K.University	5
54	UG	Nature of language	Dr. Shiva Durga	18.01.2024	28.02.2024	M.K.University	2
55	UG	Problem solving Aspects and Python Programming	Dr.S.Malliga	18.01.2024	10.04.2024	M.K.University	4
56	UG	Reporting and Editing for Print	Dr. S. Saleema Rabiyyath	18.01.2024	10.04.2024	M.K.University	4
57	UG	Child development	Dr.S.Prakash	18.01.2024	13.03.2024	M.K.University	2
58	UG	Learning, Teaching and Assessment	Dr. G. Victoria Naomi	18.01.2024	13.03.2024	M.K.University	2
59	UG	Sensory Disabilities	Mrs. R.Shanthi	18.01.2024	13.03.2024	M.K.University	2
60	UG	Orientation and Mobility	Mrs. R. Nagomi Ruth	18.01.2024	13.03.2024	M.K.University	2
61	UG	Agricultural Geography	Dr V Krishna Kumar	15.01.2024	30.04.2024	University of Mysore	4
62	UG	Applied Entomology	Dr. Sannappa B	15.01.2024	30.04.2024	University of Mysore	4
63	UG	Descriptive Statistics	Prof Vidya Raju	15.01.2024	30.04.2024	University of Mysore	4
64	UG	Environmental Economics	Prof Ravindra Kumar	15.01.2024	30.04.2024	University of Mysore	5
65	UG	Geography of India	Prof. A. Balasubramanian	15.01.2024	30.04.2024	University of Mysore	4
66	UG	Hospitality Industry in Tourism	Prof. H. Rajashekar	15.01.2024	30.04.2024	University of Mysore	4
67	UG	Human Genetics	Prof N B Ramachandra	15.01.2024	30.04.2024	University of Mysore	4
68	UG	Introductory Microeconomics	Dr Reshma Chengappa	15.01.2024	30.04.2024	University of Mysore	5
69	UG	Physical Geography - Climatology and Oceanography	Dr. Arun Das	15.01.2024	30.04.2024	University of Mysore	4
70	UG	Probability and Probability Distributions	Prof P Nagesh	15.01.2024	30.04.2024	University of Mysore	4
71	UG	Silkworm rearing and reeling technology	Dr Divya	15.01.2024	30.04.2024	University of Mysore	4
72	UG	Virology	Dr. K. R. Maruthi	15.01.2024	30.04.2024	University of Mysore	4
73	UG	Wild Life and its Conservation	Dr S Basavarajappa	15.01.2024	30.04.2024	University of Mysore	4
74	UG	Course in Information Technology	Bageshree Deo	22.01.2024	30.04.2024	SPU, Pune	3
75	UG	Fundamentals of Banking and Insurance	Dr. Girija Shankar	22.01.2024	30.04.2024	SPU, Pune	2
76	UG	Fundamentals of Financial Management	Dr. Rupali Sheth	22.01.2024	30.04.2024	SPU, Pune	3
77	UG	Management Information System	Dr. A. Abhilasha	22.01.2024	30.04.2024	SPU, Pune	4



**List of Courses for Jan. - June 2024 Semester**

Sr. No.	Level of the Course	Course Title	Name of the Course Coordinator	Start date	End date	Host University	No of Credits
78	UG	Introduction to Psychology	Dr. Megha Deuskar	22.01.2024	30.04.2024	SPU, Pune	4
79	UG	Introductory Macroeconomics	Dr. Manasi Kurtkoti	22.01.2024	30.04.2024	SPU, Pune	5
80	UG	Business Law	Dr. Ravi Ahuja	22.01.2024	30.04.2024	SPU, Pune	5
81	PG	Communication Technologies in Education	Dr. Dhaneswar Harichandan	22.01.2024	30.04.2024	University of Mumbai	4
82	UG	Corporate Law	Dr. Heena Basharat	22.01.2024	30.04.2024	University of Kashmir	5
83	UG	Psychology of Individual Differences	Dr. Manzoor Ahmad Rather	22.01.2024	30.04.2024	University of Kashmir	4
84	UG	Social Formations and Cultural Patterns of the Ancient World	Dr. Abdul Rashid Lone	22.01.2024	30.04.2024	University of Kashmir	5
85	UG	History of India-II	Dr. Younus Rashid	22.01.2024	30.04.2024	University of Kashmir	5
86	UG	Psychology for Health and Well-being	Dr. Yasir Hamid Bhat	22.01.2024	30.04.2024	University of Kashmir	5
87	UG	Administrative Law	Dr. Aneeda Jan	22.01.2024	30.04.2024	University of Kashmir	2
88	UG	Complex Ecosystem Dynamics	Dr. Syed Maqbool Geelani	22.01.2024	30.04.2024	University of Kashmir	2
89	UG	Immunology	Dr. Manzoor A. Mir	22.01.2024	30.04.2024	University of Kashmir	4
90	UG	Embryology of Angiosperms	Dr. Khursheed Ahmad Ganai	22.01.2024	30.04.2024	University of Kashmir	2
91	UG	Environmental Issues In India	Dr. Javid A Parray	22.01.2024	30.04.2024	University of Kashmir	5
92	UG	POLITICAL THEORY: CONCEPTS & DEBATES	DR. SIBAJI PRATIM BASU	15.01.2024	30.04.2024	ST. XAVIER'S COLLEGE, KOLKATA	5
93	UG	Introduction to Sociology I	Dr Sarbani Bandyopadhyay	15.01.2024	30.04.2024	St. Xavier's College (Autonomous)	5
94	UG	Making of Contemporary India	Dr. Soumitra Sreemani	15.01.2024	30.04.2024	St. Xavier's College (Autonomous)	5
95	UG	Constitutional Government & Democracy in India	Prof. Amitabha Ray	15.01.2024	30.04.2024	St. Xavier's College (Autonomous)	5
96	UG	Sociology of Media	Dr. Ipsita Barat	15.01.2024	30.04.2024	St. Xavier's College (Autonomous), Kolkata	5
97	UG	Econometrics	Partha Pratim Ghosh	15.01.2024	30.04.2024	St. Xavier's College (Autonomous), Kolkata	5
98	UG	Political Process in India	Dr. Jhumpa Mukherjee	15.01.2024	30.04.2024	St Xavier's College, Kolkata	5
99	UG	INTRODUCTION TO SOCIOLOGY-II	KASTURI SINHA GHOSH	15.01.2024	30.04.2024	St. Xavier's College(Autonomous)	5
100	UG	Advertisement and Media	Dr. Manali Bhattacharya	15.01.2024	30.04.2024	St. Xavier's College (Autonomous), Kolkata	2
101	UG	Aspects of European History (1780- 1939)	Prof. Subhas Ranjan Chakrobarty	15.01.2024	30.04.2024	St. Xavier's College (Autonomous), Kolkata	3
102	PG	Operations Research	Prof. Bibhas Chandra Giri	22.01.2024	30.04.2024	University of Calcutta, Kolkata	4
103	PG	Partial Differential Equations	Alaka Das	22.01.2024	30.04.2024	University of Calcutta	4
104	PG	Numerical Analysis	Dr. Madhumangal Pal	22.01.2024	30.04.2024	Calcutta University	4
105	PG	FUNCTIONAL ANALYSIS	DR. MANTU SAHA	22.01.2024	30.04.2024	University of Calcutta	4
106	PG	Law and Justice in a Globalising World	Prof. Srikrishna Deva Rao	22.01.2024	30.04.2024	National Law University Orissa	4
107	PG	CHEMISTRY OF NANOMATERIALS	Dr. Syamchand. S. S	15.01.2024	30.04.2024	University of Calicut	4
108	UG	Introduction to Nanoscience and Nanotechnology	Dr. Swapna S Nair	15.01.2024	30.04.2024	University of Calicut	4
109	UG	Applied and Economic Zoology	Dr.Dalie Dominic A	15.01.2024	30.04.2024	University of Calicut	4
110	UG	Animal Biotechnology	Dr.Jayasree.S	15.01.2024	18.04.2024	University of Calicut	4
111	UG	Art of C Programming	Dr.Lajish V L	15.01.2024	30.04.2024	University of Calicut	4
112	UG	School Organization: Administration& Management	Dr. Minila K. George	15.01.2024	30.04.2024	University of Calicut	4
113	UG	Information Security	Dr. Reshma P K	15.01.2024	29.04.2024	University of Calicut	5
114	UG	Genetics and Genomics	Dr. Jos T Puthur	15.01.2024	30.04.2024	University of Calicut	4
115	UG	Communicative English	Dr.Salia Rex	15.01.2024	30.04.2024	University of Calicut	4
116	UG	Differential Equations	Mr. Mohamed Nishad Maniparambath	15.01.2024	30.04.2024	University of Calicut	4

**List of Courses for Jan. - June 2024 Semester**

Sr. No.	Level of the Course	Course Title	Name of the Course Coordinator	Start date	End date	Host University	No of Credits
117	UG	Calculus	Dr. Mansoor P	15.01.2024	30.04.2024	University of Calicut	4
118	UG	ECONOMIC HISTORY OF INDIA FROM 1857 TO 1947	Dr. Linda George	15.01.2024	30.04.2024	University of Calicut	5
119	UG	Entrepreneurship Development	Nilam Panchal	15.01.2024	30.04.2024	Gujarat University	4
120	PG	Digital Library	Dr. Jagdish Arora	15.01.2024	30.04.2024	Central University of Himachal Pradesh	5
121	PG	HRM For Non-HR Managers	Dr. Margie Parikh	15.01.2024	30.04.2024	Gujarat University	4
122	UG	Management Accounting	Dr. Deepak Raste	15.01.2024	30.04.2024	Gujarat University	4
123	PG	Access to Justice	Dr. Bharti Yadav	15.01.2024	30.04.2024	National Law University, Delhi	4
124	PG	Advanced Constitutional Law	Prof. (Dr.) Anupama Goel	15.01.2024	30.04.2024	National Law University Delhi	4
125	PG	Biomolecules : Structure, Function In Health And Disease	Ashok Sharma	15.01.2024	30.04.2024	All India Institute of Medical Sciences, New Delhi	4
126	PG	City & Metropolitan Planning	Prof. Dr. Sanjukta Bhaduri	15.01.2024	30.04.2024	School of Planning and Architecture, New Delhi	4
127	PG	Criminal Justice Administration	Dr. Neeraj Tiwari	15.01.2024	30.04.2024	National Law University Delhi	4
128	UG	Environmental Law	Dr. Bharti	15.01.2024	30.04.2024	National Law University, Delhi	4
129	PG	Hindi Bhasha ka Udbhav aur Vikas	Dr. Ganga Sahay Meena	15.01.2024	30.04.2024	Jawaharlal Nehru University	4
130	PG	Hindi Gadya Sahitya Katha Sahitya	Professor Deo Sahankar Navin	15.01.2024	30.04.2024	Jawaharlal Nehru University	4
131	PG	Indian Culture & History	Prof. Shiv Shankar Mishra	15.01.2024	30.04.2024	Shri Lal Bahadur Shastri National Sanskrit	4
132	UG	Organic Chemistry 1_UG	B. S. Balaji	15.01.2024	30.04.2024	Jawaharlal Nehru University	4
133	PG	Society and Media	Dr. Durgesh Tripathi	15.01.2024	30.04.2024	Guru Gobind Singh Indraprastha University, Delhi	4
134	PG	Media Content Production on Multiple Platforms	Dr. Krishna Sankar Kusuma	15.01.2024	30.04.2024	Jamia Millia Islamia, New Delhi	4
135	PG	Intellectual Property	Dr Yogesh Pai	15.01.2024	30.04.2024	National Law University	4
136	PG	Indian Vastushastra	Dr. Pravesh Vyas	15.01.2024	30.04.2024	Sri Lal Bahadur Shastri Rashtriya Sanskrit	4
137	PG	Introductory Sanskrit: Grammar	Prof. Jaikant Singh Sharma	15.01.2024	30.04.2024	Sri Lal Bahadur Shastri Rashtriya Sanskrit	4
138	UG	Introduction to Film Studies	Juhee Prasad	15.01.2024	30.04.2024	Doon University	4
139	UG	Coordination Chemistry, states of matters & chemical kinetics	Dr. R. N. Jadeja	15.01.2024	30.04.2024	The Maharaja Sayajirao University of Baroda,	4
140	PG	Academic Writing	Dr Ajay Semalty	15.01.2024	30.04.2024	H.N.B. Garhwal University, (A Central University)	4
141	UG	हिन्दी भाषा एवं संप्रेषण (Ability Enhancement Course)	Dr. Kshama Pandey	24.01.2024	30.04.2024	MJP Rohilkhand University	4
142	UG	Public Policy and Governance	Dr. A. Sridhar Raj	08.01.2024	30.04.2024	Osmania University	5
143	UG	Administrative Theory	Dr.Lakshman	15.01.2024	30.04.2024	Osmania University	5
144	PG	Water Resources and Watershed Management	Dr. Harish Gupta	15.01.2024	30.04.2024	Osmania University	4
145	UG	Rethinking Development	Prof. Satyapriya Rout	15.01.2024	30.04.2024	Univeristy of Hyderabad	5
146	UG	Introduction to Public Administration	Prof.Y Pardha Saradhi	12.02.2024	30.04.2024	Osmania University	5
147	UG	Data Structures	Dr.J.Indumathi	31.1.2024	30.04.2024	Anna University	4
148	UG	Data Base Management Systems	Dr. E. Shanmugapriya	31.1.2024	30.04.2024	Anna University	4
149	UG	Digital Electronics and Microprocessor	Dr.V.Jeyalakshmi	31.1.2024	30.04.2024	Anna UNIVERSITY	2
150	UG	Statistics for Business Decisions	Prof. Karunesh Saxena	01.08.2024	30.04.2024	J N Vyas University, Jodhpur	4
151	UG	Earth System Science	M S Sisodia	01.08.2024	30.04.2024	JNV University	4
152	UG	CORPORATE ACCOUNTING	AMITA BISSA	01.08.2024	30.04.2024	JNVU	5
153	UG	Biopsychology	Dr. Hemlata Joshi	01.08.2024	30.04.2024	JNVU	5
154	UG	Business Communication	Dr. Meeta Nihalani	01.08.2024	30.04.2024	JNVU Jodhpur	4



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For more details, log on to: <https://swayam.gov.in>  
UGC website : <https://ugc.ac.in>  
CEC's website : <https://cec.nic.in>

CEC Helpdesk SWAYAM and SWAYAM Prabha [Direct Tel. No.]

**011-24126425**





# # EduTweets #



**Dharmendra Pradhan** @dpradhanbjp · Nov 7

Along with Minister @JasonClareMP spoke at the 'Research Dialogue' aimed at catalysing new opportunities for deepening bilateral research collaborations between India and Australia.

Research has to be a priority area for the larger benefit of society. Both Australia and India...  
[Show more](#)



**Ministry of Education** @EduMinOfIndia · Nov 17

The University Grants Commission (UGC) approves a dynamic post-graduate curriculum with a 1-year Master's program.

Unveiling a 1-year Master's program with unprecedented flexibility, students can seamlessly switch disciplines, embrace diverse learning experiences with offline,...  
[Show more](#)

## 1-yr PG course, freedom to pick subject

KANITA BAKSHI-BASTI @NewOds

### UGC's CREDIT SCORE PLAN

Qualifications	Level	Credits	Credit Points
B.A. Honours	6	40	240
1 yr PG after 4-yr UG	6.5	40	240
2 yr PG after 4-yr UG	6.5	40+40	240
3 yr PG after 4-yr UG	7	40+40	240

Under the National Higher Education Qualifications Framework (NHEQF), higher education qualifications are classified along a continuum of levels from level 4, 5 to level 8 (represents learning outcomes appropriate to the doctoral level programme of study).

graduated programme in STEM subjects towards the MEd and M Tech in related areas, Kumar said. "This multidisciplinary education fosters a well-rounded understanding of the world and encourages critical thinking and problem-solving skills," he added.

As per the draft policy, undergraduate students can opt for a double major or opt for any of the two subjects they have mastered in. It also allows students who qualify UGC with a major and minor to opt for either a major or minor's subject in the master's programme.

As per the draft policy, higher education institutions will have the flexibility to have different designs of master's programmes: one-year, two-year and an integrated two-year course.



**Dharmendra Pradhan** @dpradhanbjp · Nov 24

Laid the foundation stone for National Skill Training Institute at Jatni, Bhubaneswar under the #NSTIPlus initiative.

The upcoming state-of-the-art integrated campus of NSTI will empower the youth of #NewIndia by providing them with cutting-edge skills and knowledge required to...  
[Show more](#)



**UGC INDIA** @ugc\_india · Nov 17

The UGC Draft Curriculum and Credit Framework for PG Programmes aim to offer more flexibility and a multidisciplinary approach. Read the full document to know more- [ugc.gov.in/pdfnews/382673...](https://ugc.gov.in/pdfnews/382673...)

All are invited to provide suggestions, comments, or feedback on the draft at...  
[Show more](#)

**University Grants Commission**

**UGC's Draft Curriculum and Credit Framework for Postgraduate Programmes**

- **Opportunity for learners to choose the essence of their interest.**
  - Flexibility for students who qualify UGC with a double major to opt for any of the two subjects they have mastered.
  - Flexibility to move from one discipline of study to another.
  - Flexibility to switch to alternative modes of learning (offline, ODL, Online learning, and hybrid mode of learning).
- **Universities will also offer Master's programmes in core as well as multidisciplinary fields and professional areas like health, care, agriculture, and law.**
  - For students completing a 4-year Bachelor's programme with Mathematics/Statistics with Research, there could be a 1-year Master's programme.

Scan the QR or Read on [www.ugc.gov.in](https://www.ugc.gov.in)

Qualifications	Level	Credits	Credit Points
B.A. Honours	6	40	240
1 Year PG after 4-yr UG	6.5	40	240
2 Year PG after 4-yr UG	6.5	40 + 40	240
3 Year PG after 4-yr UG	7	40 + 40	240

**Framework for PG Programmes:**

**Flexibility and multidisciplinary in structured ways**

Discipline	Qualification	Level	Credits	Credit Points
Traditional	4-year UG	6	40	240
Interdisciplinary	4-year UG	6.5	40	240
Professional	4-year UG	6.5	40	240
Research	4-year UG	6.5	40	240



**Ministry of Education** @EduMinOfIndia · Nov 22

Secretary, Higher Education, Ministry of Education Shri K. Sanjay Murthy presided over a meeting today with senior officials of the @ECISVEEP, @AICTE\_INDIA, @ugc\_india and the Department of Higher Education to discuss the action points and prepare the roadmap for...  
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**UGC INDIA** @ugc\_india · Nov 23

Chairman UGC, Prof. M. Jagadeesh Kumar addressing the Northern Zone Vice Chancellors' Conference on the NEP 2020 implementation in Chandigarh.

Courtesy: The Tribune

#UGC #NEP #NEP2020

**At VC's meet, UGC chief says zeal to implement NEP visible**

**TRIBUNE NEWS SERVICE**

CHANDIGARH, November 22 — The two-day northern zone vice-chancellors' conference on the implementation of NEP-2020 commenced at Punjab University (PU) today. The event is being organized by PU in collaboration with the University Grants Commission (UGC) and the Central Board of Secondary Education (CBSE).

The welcome address was delivered by PU Vice-Chancellor Prof. Ramesh Vaid, who said the university was taking all necessary measures to implement the policy from the forthcoming session.

CUE Vice-Chancellor Prof. Tarun Kumar said the fact that outcome-based education was the prime objective of the NEP. "The policy aims at making our students employable, not job-seekers," he said.

The opening remarks by UGC chairman, Prof. M. Jagadeesh Kumar emphasized that real among students as well as institutions to introduce the NEP was visible. "Students are ready to experiment with multiple entry and exit options and opt for multidisciplinary courses, but our rigid education system is not," he said. It was important to allow the NEP to sweep into education ecosystem to be socially and culturally progressive, he added.

The inaugural address was delivered by Haryana Governor Bandaru Dattatreya, who highlighted the importance of technology, innovation and research, and adapting oneself to the changing times. "Students must take education seriously," he said mockingly. The implementation of the NEP was important to achieve the objective of "Atmanirbhar Bharat", he added.





## CEC's Bouquet of 11 DTH Channels on **SWAYAM Prabha**



CEC is the National Coordinator for Non-Technology UG and PG Programmes for 11 SWAYAM Prabha – MoE DTH bouquet of educational channels that telecast high quality educational programmes 24x7. Each channel has fresh educational content for 8 hours to be telecast 3 times a day. The channels are free-to-air and can be viewed on DD Free Dish and DishTV. CEC's exclusive 24x7 CEC-UGC Higher Education channel – Vyas transmission is available on CEC's website: <http://cec.nic.in> and on <http://webcast.gov.in> web portal of the Government of India. Each programme offers a comprehensive understanding of the fundamentals of the subjects enabling the students to choose a convenient time and ensure recapitulation. Curriculum based programmes meet the needs of lifelong learners.

### Channel Name – वागीश | Vageesh

Channel Scope – Language & Literature  
Channel No. – CEC-UGC - 01

Subjects: Hindi Literature, Hindi Language, English Language, English Literature, Sanskrit, Urdu, Foreign Language Courses: German, Japanese, Chinese, Spanish, French, Russian, Linguistics

### Channel Name – संस्कृति | Sanskriti

Channel Scope – History, Culture & Philosophy  
Channel No. – CEC-UGC - 02

Subjects: History, Philosophy, Performing Arts, Rabindra Sangeet, Hindustani Classical Music, Karnataki Sangeet, Fine Arts, Manuscriptology, Painting Applied Art Sculpture, Theatre Arts, Film Studies, Painting Applied Multimedia, Vocational Studies, Buddhist Studies, Comparative Studies of Religion, Jyotish Ganit, Visual Arts, Indian Culture

### Channel Name – प्रबोध | Prabodh

Channel Scope – Social & Behavioral Sciences  
Channel No. – CEC-UGC - 03

Subjects: Sociology, Anthropology, Social Work Administration, Social Work, Political Science, Public Administration, Psychology, Population Studies, Women Studies

### Channel Name – साारस्वत | Saaraswat

Channel Scope – Education and Home Science  
Channel No. – CEC-UGC - 04

Subjects: B.A. Education, B. Ed., B. Ed. English, Special Education for Visually Impaired, Elementary Education, Environmental Science, Home Science, Adult Education, Physical Education, Sports & Health Education

### Channel Name – प्रबंधन | Prabandhan

Channel Scope – Information, Communication and Management Studies  
Channel No. – CEC-UGC - 05

Subjects: Business Management, Human Resources Management, Management & Marketing of Insurance, Marketing Management & Retail Business, Bachelor of Business Studies, Office Administration & Secretarial Practice, Tourism, Hindi Journalism, Communication & Journalism, Multimedia Communication, Vocational Studies – Mass Communication, Video Production, Advertising, Library Information Science Management

### Channel Name – विधिक | Vidhik

Channel Scope – Law and Legal Studies  
Channel No. – CEC-UGC - 06

Subjects: LLB, Criminology, Forensic Science, Human Rights & Duties



**Channel Name - कौटिल्य | Kautilya**Channel Scope – Economics and Commerce  
Channel No. – CEC-UGC - 07

Subjects: Economics, Business Economics, Commerce, Financial Accounting

**Channel Name - आर्यभट्ट | Aryabhata**Channel Scope – Physical and Earth Sciences  
Channel No. – CEC-UGC - 08

Subjects: Mathematics, Statistics, Physics, Geography, Geology, Chemistry

**Channel Name - स्पंदन | Spandan**Channel Scope – Life Sciences  
Channel No. – CEC-UGC - 09

Subjects: Botany, Zoology, Life Sciences, Microbiology, Bio-Medical Sciences, Bio-Chemistry, Bio-Informatics

**Channel Name - दक्ष | Daksh**Channel Scope – Applied Sciences  
Channel No. – CEC-UGC - 10

Subjects: Applied Life Science - Sericulture, Applied Physical Sciences - Electronics, Industrial Chemistry, Computer Science, Computer and Networking, Cyber Security/Information Security, Environmental Science, Analytical Chemistry/Instrumentation, Pharmacy, Agriculture, Architecture, Biophysics, Food &amp; Nutrition, Food Technology, Polymer Science

**Channel Name - व्यास | Vyasa**  
Channel No. – CEC-UGC - 40**Art/Culture/Literature/Language****Band - I**

English Language, Linguistics, Hindi &amp; other Languages, English Literature, Literature of other Languages, Culture, Architecture, Plastic Arts &amp; Sculpture, Drawing &amp; Decorating Arts, Painting &amp; Fine Arts, Music, Recreational &amp; Performing Arts, Public Performance, Film Appreciation, Dance &amp; Drama, Religion, Customs, Folklore

**Social Science****Band - II**

History, Geography, Biography, Genealogy, Insignia (Awards), Archaeology, Museology, Manuscripts &amp; Rare Books, Philosophy, Psychology, Religion, Social Sciences/ Sociology, Anthropology, Political Science, Economics, Public Administration

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Management, Marketing, Commerce, Communications, Telecommunication, Tourism, Advertising &amp; Public Relations, New Media Journalism, Publishing, Photography &amp; Photographs, Graphic Arts, Printmaking &amp; Prints, Library &amp; Information Science, Education, Sports/Physical Education, Women Education, Law, Environment Studies/Management, Home Economics &amp; Family Living

**Natural and Applied Science****Band - IV**

Forensic Science &amp; Criminology, Mathematics, Astronomy &amp; Allied Sciences, Physics, Chemistry, Earth Science, Geology, Hydrology, Meteorology, Paleontology/Fossils, Life Science, Biology/Ecology, Genetics/Biotechnology, Microbiology, Botany, Zoology, Medical Science, Health &amp; Nutrition, Diseases, Engineering, Electrical/Mechanical Engineering, Mining &amp; Related Operations, Military &amp; Nautical Engineering, Civil Engineering, Manufacturing Technology, Agriculture, Horticulture, Animal Husbandry/Veterinary Sciences, Sericulture, Aquaculture, Chemical Engineering/Biotechnology, Manufacturing for Specific Uses, Computer Sciences

# #Birthdays@December2023

SAGITTARIUS

DEC  
02



Prof. J.B. Nadda  
Director, CEC

Sagittarians enjoy breaking barriers and paving the path to uncharted territories. Optimists throughout the challenges life throws at them, they have the strength and willpower to accomplish things others fail at.



DEC  
02



Hemlata  
Data Entry Operator

DEC  
05



Prem Chander  
Graphic Designer

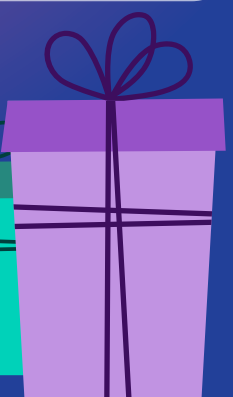
DEC  
06



Rajnish Shrivastava  
Additional Director

CEC wishes you all a very

Happy  
Birthday





# #Birthdays@December2023

## SAGITTARIUS

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13



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Content Writer

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Mangesh Lede  
Engineer

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17



Sanjeev Kumar  
Light Boy

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19



Disha Avtar  
Academic Coordinator



## CAPRICORN

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Sachin  
L.D.C.

DEC  
31



Ritu Khare  
Project Associate



Capricorns treat all people equally, are big-hearted, fair and wise. They're known for sticking to the rules... but of course set by themselves!!



C&C wishes you all a very

# Happy Birthday



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#Learn Anytime**



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