

KATHAN

E-Magazine of UPL university of sustainable technology



ज्ञानम् यजामहे।

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#Student Editors


Kathan
ज्ञानम् यजामहे।



GAGANDEEP SINGH

Chemical Eng.

7th sem

KRISHNA JOSHI

Electrical Eng.

3rd sem



DEV JOSHI

Electrical Eng.

7th sem

DIPALI PATEL

Chemical Eng.

7th sem



Kaushil Mehta

Chemical Tech.

7th sem

Anand Patel

Electrical Eng.

7th sem



Dev Patel

Mechanical Engg.

7th sem

Meet Rathod

Chemical Tech.

7th sem



JEET PARMAR

B. Sc

3rd sem

Nisha Pandey

B. Sc

3rd sem

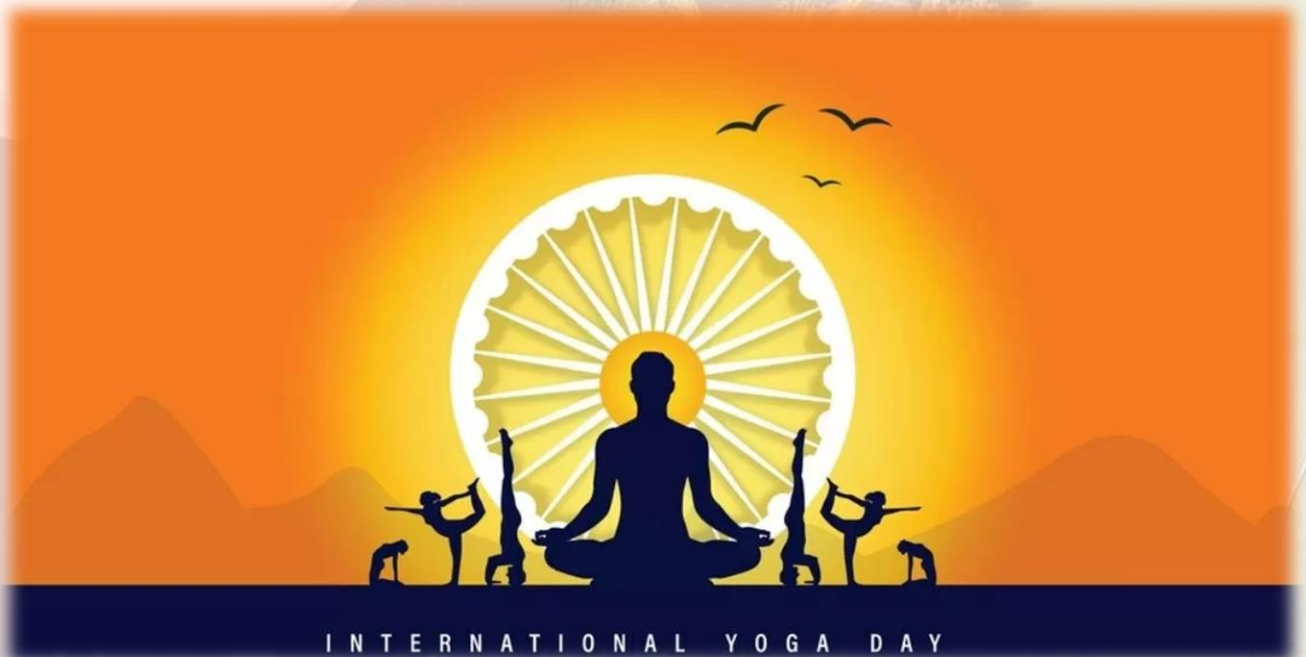


INTERNATIONAL YOGA DAY- 2024

On June 21, 2024, UPL University of Sustainable Technology celebrated **International Yoga Day** with great enthusiasm, highlighting health, wellness, and mindfulness.

The event featured Yoga Masters Aayush Shah for the male staff and Devanshi Sardhara & Hitisha Goti for the female staff, bringing a unique and enriching experience.

The celebration began with a welcome address from the Provost, emphasizing yoga importance. Masters Shah, Sardhara, and Goti led engaging sessions, offering various yoga styles, breathing exercises, and meditation techniques. Participants appreciated the serene and inclusive atmosphere, with clear and motivating guidance.



INTERNATIONAL YOGA DAY-2024

GLIMPSES

International
yoga day



UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

21
JUNE



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INTERNATIONAL YOGA DAY-2024

GLIMPSES



International yoga day

21
JUNE



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WORLD ENVIRONMENT DAY

UPL University of Sustainable Technology celebrated World Environment Day. Dr. Omprakash Mahadwad, Dean - Engineering & CoE, Dr. Alok Gautam -Dean (I/c) R & D) , Dharmesh Patel – Registrar , Faculty members, Staff members and students were present on this occasion and planted around 15 trees besides Walkway of UPL Hostel. This event was organized by University Office under guidance of Registrar. Special Thanks to Forest Department, Valia, Govt of Gujarat for providing plants, Brijesh Patel and Ritesh Thakkar for the preparation of the event in short notice



WORLD ENVIRONMENT DAY

GLIMPSES



IQAC ACTIVITY

Nature Club of UPL University (in association with IQAC) organized a Photography Competition on the occasion of World Environment Day, titled 'Earth's Pulse: Capturing Life and Landscapes.' The aim of this competition was to inspire participants to showcase the beauty of nature, the impacts of environmental challenges and the efforts towards sustainable living. Students from various departments enthusiastically participated in the competition.

UPL OpenAg[™] UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY Rotary Ankleshwar

Winners of photography contest
Earth's pulse: Capturing Life & Landscapes

1

Akash Mandal
BE-CE; SEM 4

2

Anjali Yadav
BE-EST; SEM 6

3


Modi Prit
DE-CE; SEM 4



The Department of Environmental Science & Technology heartily congratulates the winners and participants.

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UPL OpenAg[™] UPL UNIVERSITY OF SUSTAINABLE TECHNOLOGY Rotary Ankleshwar

Winners of photography contest
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ABHYUTTHAN

THE ACADEMIC AWARDS CEREMONY



ABHYUTTHAN of UPL University was organized to felicitate the endeavours of students top rankers from B.E., D.E., M.E., B. Sc., M. Sc. of Semester III of Winter 2023 examinations. Mrs. Sandra Shroff, Chairman, ARES was the chief guest of the event along with Mr. Ashok Panjwani, President of UPL University of Sustainable Technology, Prof. Shrikant J. Wagh, Provost of UPL University of Sustainable Technology, as well as other university officials, faculty and staff members, parents, and students.

ABHYUTTHAN

THE ACADEMIC AWARDS CEREMONY

GLIMPSES



HANDS-ON WORKSHOP

UPL University of Sustainable Technology in collaboration with Intellipaath and IIT Madras is offering an "**Advanced Certification in Data Science & Artificial Intelligence**" course. For the ongoing third batch of the said course, a two-day hands-on workshop on "**Power BI**" on June 28th and 29th, 2024 at the university campus.



Workshop on "**Power BI**"

Mr. Mayank Vyas
Trainer

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The keynote trainer, Mr. Mayank Vyas explained the basics of Power BI, including DAX functions, data analysis and cloud integration with Power BI.

Students thoroughly enjoyed this informative workshop.

OUTSTANDING ACADEMIC ACHIEVEMENTS

UPL UNIVERSITY
OF
SUSTAINABLE TECHNOLOGY

D.E. SEM 4 SUMMER-24
Congratulations Shining Star!!

 Yash Rana SPI : 10 CPI : 10 Computer Engg.	 Raj Devraj SPI : 10 CPI : 9.94 Computer Engg.	 Shiv Varsada SPI : 10 CPI : 9.94 Chemical Engg.	 Sakshi Pandey SPI : 10 CPI : 9.88 Chemical Engg.
 Anurag Bacchhav SPI : 10 CPI : 9.87 Environmental Engg.	 Yash Vanza SPI : 10 CPI : 9.80 Chemical Engg.	 Rulesh Kumar SPI : 10 CPI : 9.78 Chemical Engg.	 Dhruv Kamdar SPI : 10 CPI : 9.76 Chemical Engg.
 Man Patel SPI : 10 CPI : 9.74 Chemical Engg.	 Rohit Patil SPI : 10 CPI : 9.67 Chemical Engg.	 Aryan Singh SPI : 10 CPI : 9.66 Environmental Engg.	 Dharmik Patel SPI : 10 CPI : 9.53 Chemical Engg.
 Prince Vishwakarma SPI : 10 CPI : 9.42 Chemical Engg.	 Krutik Macchi SPI : 10 CPI : 8.99 Chemical Engg.	 Vedan Prajapati SPI : 10 CPI : 8.71 Chemical Engg.	

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SRICT

Congratulations!

GTU B.E. Sem. 8 Summer-24

 DESAI ZEEL SPI : 10, CGPA : 9.85 Environmental Science & Technology	 CHANDEGRA MEET SPI : 10, CGPA : 9.72 Chemical Engineering	 MODI NISARG SPI : 10, CGPA : 9.7 Chemical Engineering
 LAKDAWALA OM SPI : 10, CGPA : 9.6 Chemical Engineering	 SAINI UMESH SPI : 10, CGPA : 9.57 Chemical Engineering	 YUNUS IQBAL SPI : 10, CGPA : 9.56 Electrical Engineering
 RAJ ADITYASINH SPI : 10, CGPA : 9.43 Chemical Engineering	 PANDIT DEVARSH SPI : 10, CGPA : 9.3 Chemical Engineering	

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100% Results

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OUTSTANDING ACADEMIC ACHIEVEMENTS



CONGRATULATION

M. E. Sem. 4 Summer-2024



SHARMA RIYA
SPI: 10, CPI: 9.81
Environmental Management



PATEL NIRMAL
SPI: 10, CPI: 9.68
Chemical Engineering



JADAV MAYUR
SPI: 10, CPI: 9.63
Environmental Management



JHALA RAJDEEP
SPI: 10, CPI: 9.54
Mechanical Engineering



PATEL DHRUV
SPI: 10, CPI: 9.46
Chemical Engineering



PRAJAPATI MAYUR
SPI: 10, CPI: 9.35
Environmental Management



NASANE RENUKA
SPI: 10, CPI: 9.1
Chemical Engineering



MAWASKAR SUBHASH
SPI: 10, CPI: 8.84
Chemical Engineering



VASAVA KARAN
SPI: 10, CPI: 8.64
Mechanical Engineering



ATODARIYA VISHVARAJ
SPI: 10, CPI: 8.03
Mechanical Engineering



PARIKH DARSHITA
SPI: 10
Environmental Management

"Congratulations to Our Achievers: Shining Bright with Outstanding Results!"

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+91 9712177799

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B.S.C. SEM. 6 SUMMER-24 RESULT



Tanmay Fatangare
SPI: 9.91 | CGPA: 9.83



Nisha Pandey
SPI: 9.83
CGPA: 9.73



Het Bhatt
SPI: 9.83
CGPA: 9.63



Seema Ahir
SPI: 9.83
CGPA: 9.50



Mohammadzuned Kher
SPI: 9.74
CGPA: 9.90



Omkar Desai
SPI: 9.74
CGPA: 9.85



Tanu Yadav
SPI: 9.74
CGPA: 9.38



Deep Goriya
SPI: 9.74
CGPA: 9.34



Sakshi Singh
SPI: 9.65
CGPA: 9.56



Riyaz Bobat
SPI: 9.57
CGPA: 9.63



Bhavika Prasad
SPI: 9.57
CGPA: 9.33



Jigisha Patil
SPI: 9.57
CGPA: 8.63



Sandeep Yadav
SPI: 9.39
CGPA: 9.46



M Zuhar Shaikh
SPI: 9.39
CGPA: 8.98



Seema Sharma
SPI: 9.39
CGPA: 8.98



Vaishnavi Dave
SPI: 9.39
CGPA: 8.98



Bhavika Patil
SPI: 9.30
CGPA: 9.29



Shrushti Patel
SPI: 9.30
CGPA: 9.09



Akash Singh
SPI: 9.30
CGPA: 8.73



Krupali Patel
SPI: 9.04
CGPA: 9.02



Roshani Chaurasiya
SPI: 9.04
CGPA: 8.77



Janvi Kathwadiya
SPI: 9.04
CGPA: 8.70



Jay Kachhadia
SPI: 9.04
CGPA: 8.49



Tanisha Panchal
SPI: 8.96
CGPA: 8.50



Ronak Vasava
SPI: 8.87
CGPA: 8.54

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TECHNICAL ARTICLE

What is TV resolution? From 1080p to 8K and beyond.

If you bought a TV since roughly 2020, there's a good chance it boasts "4K resolution." A 4K TV has been the standard for a while now, but what does it actually mean?

Are all 4K TVs created equally?

What came before 4K?

What the heck is 8K, and do you need it?

The TV resolution landscape isn't as complicated as it sounds.

What do the TV resolution numbers mean?

There's some nuance here that requires some context for a complete answer, but here's a basic chart to lay the groundwork:

Name	Total Pixels	Horizontal Pixels	Vertical Pixels	Notes
480p	345,600	720	480	This is the resolution for the lowest-data streaming from services such as Netflix (typically for streaming on phones over cellular data). Only second-hand TVs will have this resolution as their maximum.
720p	869,760	1280	720	This is also known as "HD." Some extremely cheap new TVs will have this resolution, but it's very rare.
1080p	Over 2 million	1920	1080	This is also known as "Full HD." This is the lowest-resolution television that is easily found at retail.
4K	Over 8 million	3840	2160	This is also known as "Ultra HD." This is the highest resolution in which most media (Blu Ray, streaming) is available.
8K	Over 33 million	7680	4320	Very few native 8K media sources are available, but 8K TVs have technology that improves the image of 4K sources.

In simplest terms, TV resolution is the amount of discreet visual information a television signal or set can share or display. The higher the resolution—the more discreet pieces of visual information that can be placed adjacent to each other—the more detailed an image can become.

TECHNICAL ARTICLE

What is TV resolution? From 1080p to 8K and beyond.

A pixel can only have one colour at any one moment, though the number of different colours a pixel can be has expanded as technology advances. While early televisions had absurdly low resolution that, due to differences in technology, didn't really have measurements in pixels but rather in lines, TV resolution standardized in the 1960s with electronic televisions and broadcasts. In those days, the standard television screen had a 4:3 aspect ratio, meaning no matter the size of the display, there were 4 units of length horizontally for every three units of height vertically.

Computers are capable of producing nearly any resolution, even non-standard ones, based on user choice, and the computer monitor market has many non-16:9 aspect ratio monitors (often dubbed "ultra wide"), but most design choices in computer software and games default to 16:9.

A higher-resolution screen is always capable of displaying a lower-resolution source. Most 4K or 8K TVs have very sophisticated additional technology that "upscales" or "upconverts" lower resolutions so that they look better on the higher-resolution sets. However, if upconversion or upscaling is not possible or poorly implemented, lower resolutions will look "muddy" or "blurry" compared to higher resolutions and may be more visually appealing on TV sets that match the source's resolution.

What the heck is 1080i and how is it different than 1080p?

There was a time when these two letters were important for your TV-watching experience, but that's not so much the case anymore. TV screens don't refresh every pixel at once. Instead, the image scans from the top to the bottom of the screen so quickly that the human eye can't detect it. Progressive scanning (like with 1080p or 1440p) works as you'd imagine. Each line refreshes in order.

TECHNICAL ARTICLE

What is TV resolution? From 1080p to 8K and beyond.

Interlaced scanning cuts corners by only displaying the even or odd rows at any given time. This also happens too quickly for the eye to notice, but it does have some negative effects on the image, especially when there's fast-moving action on-screen. You likely won't run into this choice very often out in the world. Companies don't typically advertise interlaced resolution like they once did when 720p and 1080i were battling it out in TV press releases.

How will resolution change my viewing experience?

If you are reading this article, chances are pretty good that you are thinking about buying a 1080p, 4K, or 8K television set, as those are the commonly available resolutions in new consumer models. While displays go up to 8K, the vast majority of media sources—broadcasts you pick up via antenna, Blu-ray players, streamers, video game consoles, etc.—currently max out at 4K resolution. This means that you will need at least a 4K television to display the best-quality images. 4K streaming is not available with every service, but it is with most of the most popular ones, such as Netflix, Max, and Disney+. Standard Blu-ray is 1080p, but “4K Blu-ray,” the preferred format for most people interested in physical media, displays in 4K. Xbox Series X and PlayStation 5 both have 4K available with most of their games. Based on all of this and the fact that low-end 4K is barely more expensive than 1080p, we recommend 4K as the minimum for any new TV you buy. 8K is more of a luxury due to the low amount of content available in native 8K.

TECHNICAL ARTICLE

What is TV resolution? From 1080p to 8K and beyond.

So, do I need 8K?

This is an important and complicated question. So much so that we dedicated an entire article to it not long ago. The thoughts in that article still stand, but if you want a summary, it's this: 8K is undoubtedly better than 4K, so if you want "the best," it's that. However, until streaming, physical media, and games are widely available in 8K resolution, 8K TVs are not a must. Also keep in mind that the distance away from a television set that you sit and the size of that set affects how much information your eye can process. Therefore, your personal room configuration may make certain TV sizes and resolutions look better. For example, if you have a 70-inch screen 2 meters away, you can definitely discern the visual difference in an 8K TV vs a 4K TV. But if you move one more meter away from that same screen, the 4K TV and 8K TV will look nearly identical (assuming everything else about the televisions is the same).

Streaming, in particular, is going to be a driver of whether or not you need to get an 8K TV. While YouTube has a small amount of mostly nature documentary content that will stream at 8K, none of the major entertainment production studios produce 8K films or television shows for home viewing, topping out at 4K. Digital film projection in movie theatres is a different story, but one irrelevant to television buying. So, no, you don't need 8K. It's nice, but it's not a need. Yet. The technology will become more ubiquitous, 8K gaming and streaming will become standard, and one day, the question will change from "Is 4K enough or do I need 8K?" to "Is 8K enough or do I need 16K?" That's the way technology works.

TECHNICAL ARTICLE

What is TV resolution? From 1080p to 8K and beyond.

The resolution will be televised

Hopefully this gives you a better idea about what resolution is and what you want. (Hint: It's probably 4K, but it might be 8K.) But don't stop there, look at our reporting on the latest 4K TVs, larger-size TVs, as well as Roku and Android TVs (which have streaming apps and games built into the TV's operating system). Learn about what choosing between OLED vs. Mini-LED technology brings to the table. There are a lot of options, and we've, well, screened them for you.

Source:

www.thinkific.com

<https://www.popsoci.com>



Rishi Sotua
EE 7th SEM

STUDENT CORNER

Poem_योग-रश्मि

चीर तुम को समर्था का कोई यहाँ,
योग को जगमगाकर कोई जा रहा।
था धरा का यहाँ 'राम' व्याकुल पड़ा,
तन से, मन से बहुत खिन्न आकुल खड़ा।
काम भी कर रही शक्ति पीछे खड़ी,
योग का ध्यान उसको था होता रहा।

थक चुका था बहुत लड़ के जीवन में वह,
रोग से क्षीण, तन से और साहस से वह।
एक संकेत पाकर 'परम हंस' से,
योग का ही उसे ध्यान होता रहा।

हो गयी फिर कृपा सत्यानन्द की,
जानी गुरु योग-अवतार की।
युग के अवतार की प्रेरणा पा मधुर,
अनुप्राणित सदा वह था होता रहा।

लग गया फिर शिविर योग का एक यहाँ,
'आत्म-दर्शन' का पद-तल जोक पहुंचा यहाँ।
हो गई फिर धरा धन्य विद्यालय की,
योग का गीत गुंजित होता रहा।

ॐ का जो मधुर उच्चरित स्वर मिला,
वन्दना कर गुरु की अमित बल मिला।
ध्यान ऐसा हुआ भूल तन, मन गया,
एक अनुभव नया नित्य होता रहा।

छात्र-छात्रा, अभिभावक, अध्यापक सभी,
योग की सुर-सरि में नहा के सभी।
'आत्म-दर्शन' - निर्देशन के आलोक से,
ज्ञान-वर्द्धन सतत सब का होता रहा।

सीखने, करने अभ्यास आसन के थे,
लग गये प्राण-पण से सजग होके वे।
फिर तो छिटकी किरण दिव्य ऐसी यहाँ,
मार्ग-दर्शन सहज सब का होता रहा।

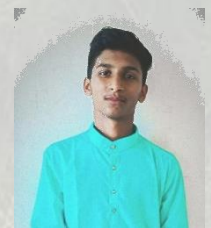
स्वामी 'आत्म-दर्शन' के दर्शन ही से,
अकलानन्द के मात्र आ जाने से।
रश्मियाँ योग की, ध्यान की, ज्ञान की,
पाके अनुप्राणित, प्रेरित जन होता रहा।

सौम्य वातावरण भव्य अब बन गया,
योग में जन मानस का मन रम गया।
चिर ऋणी हम सभी हैं स्वामी तेरे,
मिट गया तुम सवेरा जो होता रहा।

आप अपने बने धन्य हम हो गये,
प्रेम-मुरली बजी ब्रह्म में खो गये।
शान्ति के पाठ से स्वर हरि ॐ सुन,
पथ आलोकित नित्य होता रहा।

चीर तम को समर्था का कोई यहाँ,
योग को जगमगाकर कोई जा रहा।

-जनार्दन राय



Pratik Palve
EE 7th SEM

UPL University of Sustainable Technology

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