

Current Awareness Service(CAS)

(From Sunday to Saturday)

(To know the detail, please use URL mentioned below)

News on Science, Technology, Research and Innovation

1.Data from smartphones, tablets can help make cities 'smarter': Study

URL:<http://indianexpress.com/article/technology/science/data-from-smartphones-tablets-can-help-make-cities-smarter-study-4967581/>

2.December 3 supermoon first of three; will reappear on January 1, 31: NASA

URL:<http://indianexpress.com/article/technology/science/december-3-supermoon-first-of-three-will-reappear-on-january-1-31-nasa-4967582/>

3.European satellite Sentinel-5P sends images of global air pollution

URL:<http://indianexpress.com/article/technology/science/european-satellite-sentinel-5p-sends-images-of-global-air-pollution-4967726/>

4.Underwater robot made capable of manta-ray like propulsion

URL:<http://indianexpress.com/article/technology/science/underwater-robot-made-capable-of-manta-ray-like-propulsion-4967724/>

5.New system creates alternate reality to mislead hackers

URL:<http://indianexpress.com/article/technology/science/new-system-creates-alternate-reality-to-mislead-hackers-4967782/>

6.Samsung develops graphene-based batteries that charge 5x faster than Li-ion counterparts

URL:<http://indianexpress.com/article/technology/science/samsung-develops-graphene-based-batteries-that-charge-5x-faster-than-li-ion-counterparts-4969496/>

7.China to establish robot station on moon

URL:<http://indianexpress.com/article/technology/science/china-to-establish-robot-station-on-moon/>

8.New graphene-based battery charges five times faster

URL:<http://www.thehindu.com/sci-tech/technology/new-graphene-based-battery-charges-five-times-faster/article21266242.ece>

9.Qualcomm adds security features to phone chips

URL:<http://www.thehindu.com/sci-tech/technology/qualcomm-adds-security-battery-life-features-to-phone-chips/article21287500.ece>

10.Common painkillers may double obesity risk: study

URL:<http://www.thehindu.com/sci-tech/health/common-painkillers-may-double-obesity-risk-study/article21290389.ece>

11.Rapid, low-cost test to detect vitamin A, iron deficiency

URL:<http://www.thehindu.com/sci-tech/health/rapid-low-cost-test-to-detect-vitamin-a-iron-deficiency/article21273836.ece>

12.Scientists discover super massive black hole with 800 million times mass of Sun

URL:<http://www.thestatesman.com/technology/science/scientists-discover-super-massive-black-hole-800-million-times-mass-sun-1502540855.html>

13.Google announces India-first products: Android Oreo (Go edition), 'Files Go' app and more

URL:<http://www.thestatesman.com/technology/google-announces-india-first-products-android-oreo-go-edition-files-go-app-1502540407.html>

14.Robots that can see into their future developed

Url:<http://www.thestatesman.com/technology/science/robots-that-can-see-their-future-developed-1502539803.html>

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15. Over 25,000 ransomware infected Windows daily in Q3, 2017: Quick Heal report

URL: <http://www.hindustantimes.com/tech/over-25-000-ransomware-infected-windows-daily-in-q3-2017-quick-heal-report/story-LLG4Zi5IjtB7IGKq9eItWO.html>

16. AlphaZero is a sign machines will achieve human levels of intelligence sooner than we think

URL: <http://www.hindustantimes.com/editorials/alphazero-is-a-sign-machines-will-achieve-human-levels-of-intelligence-sooner-than-we-think/story-bAnTTxVMYgACeWh9qsfiN.html>

17. Computer code helps crack mystery around meteoroid explosions

URL: <http://indianexpress.com/article/technology/science/computer-code-helps-crack-mystery-around-meteoroid-explosions-4979745/>

18. Bionic hand inspired by Star Wars enables amputees to control all prosthetic fingers

URL: <http://indianexpress.com/article/technology/science/bionic-hand-inspired-by-star-wars-enables-amputees-to-control-all-prosthetic-fingers-4979818/>

19. Method to create clean, cheap hydrogen fuel from methane devised

URL: <http://indianexpress.com/article/technology/science/method-to-create-clean-cheap-hydrogen-fuel-from-methane-devised-4978272/>

20. Following the silk route

URL: <http://www.thehindu.com/sci-tech/science/following-the-silk-route/article21382109.ece>

21. You may plan a space holiday next year

URL: <https://timesofindia.indiatimes.com/home/science/you-may-plan-a-space-holiday-next-year/articleshow/62067425.cms>

22. Baby born with heart outside body survives surgery

URL: <https://timesofindia.indiatimes.com/home/science/baby-born-with-heart-outside-body-survives-surgery/articleshow/62066801.cms>

23. Brain mechanisms behind depression identified, study reveals

URL: <https://timesofindia.indiatimes.com/home/science/brain-mechanisms-behind-depression-identified-study-reveals/articleshow/62053380.cms>

24. How a viral selfie put skin cancer on internet's radar

URL: <https://timesofindia.indiatimes.com/home/science/how-a-viral-selfie-put-skin-cancer-on-internets-radar/articleshow/62048958.cms>

25. Improved glass structure behind shatter-proof smartphone screens: Study

URL: <http://indianexpress.com/article/technology/science/improved-glass-structure-behind-shatter-proof-smartphone-screens-study-4981188/>

26. Student satellite helps solve Van Allen radiation belts mystery

URL: <http://indianexpress.com/article/technology/science/student-satellite-helps-solve-van-allen-radiation-belts-mystery-4982901/>

27. Bacteria help turn Greek yogurt waste into bio-fuel

URL: <http://indianexpress.com/article/technology/science/bacteria-help-turn-greek-yogurt-waste-into-bio-fuel-4983017/>

28. Tiny autonomous robots developed to think and act like insects

URL: <http://indianexpress.com/article/technology/science/tiny-autonomous-robots-developed-to-think-and-act-like-insects-4984493/>

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29.NASA-Google's exoplanet discovery: All you need to know about AI's interstellar search

[URL:http://www.thehindu.com/sci-tech/science/nasa-googles-exoplanet-discovery-all-you-need-to-know-about-ai-interstellar-search/article21691947.ece](http://www.thehindu.com/sci-tech/science/nasa-googles-exoplanet-discovery-all-you-need-to-know-about-ai-interstellar-search/article21691947.ece)

30.NASA exploring Artificial Intelligence (AI) to communicate with space

[URL:http://www.thestatesman.com/technology/nasa-exploring-artificial-intelligence-ai-communicate-space-1502543014.html](http://www.thestatesman.com/technology/nasa-exploring-artificial-intelligence-ai-communicate-space-1502543014.html)

31.Google opens Artificial Intelligence-focused research centre in China

[URL:http://www.hindustantimes.com/tech/google-opens-artificial-intelligence-focused-research-centre-in-china/story-qRbvX3UnR6szwuPKxVLR8H.html](http://www.hindustantimes.com/tech/google-opens-artificial-intelligence-focused-research-centre-in-china/story-qRbvX3UnR6szwuPKxVLR8H.html)

News on Education

1.Accenture creates AI-inspired tutorial to bring coding to students in 56 countries

[URL:http://indianexpress.com/article/education/computer-science-education-week-promotes-coding-computer-science-skills-in-56-countries-4970580/](http://indianexpress.com/article/education/computer-science-education-week-promotes-coding-computer-science-skills-in-56-countries-4970580/)

2.Primary education should be given in mother tongue: Vice-President Venkaiah Naidu

[URL:http://indianexpress.com/article/education/primary-education-should-be-given-in-mother-tongue-vp-naidu-4969690/](http://indianexpress.com/article/education/primary-education-should-be-given-in-mother-tongue-vp-naidu-4969690/)

3.Deemed varsity row: 30,000 engineers to appear for test to ensure validity of degrees

[URL:http://indianexpress.com/article/education/deemed-varsity-row-30000-engineers-to-appear-for-test-to-ensure-validity-of-degrees/](http://indianexpress.com/article/education/deemed-varsity-row-30000-engineers-to-appear-for-test-to-ensure-validity-of-degrees/)

4.HRD ministry sets up three-member panel to suggest regulatory mechanism for deemed universities

[URL:http://indianexpress.com/article/education/hrd-ministry-sets-up-three-member-panel-to-suggest-regulatory-mechanism-for-deemed-universities-4968034/](http://indianexpress.com/article/education/hrd-ministry-sets-up-three-member-panel-to-suggest-regulatory-mechanism-for-deemed-universities-4968034/)

5.Agriculture degrees to be at par with engineering degrees: Union minister Singh

[URL:http://indianexpress.com/article/education/agriculture-degrees-to-be-at-par-with-engineering-degrees-union-minister-singh-4967373/](http://indianexpress.com/article/education/agriculture-degrees-to-be-at-par-with-engineering-degrees-union-minister-singh-4967373/)

6.Bharatavani portal offers digital dictionaries of vanishing Indian languages

[URL:http://www.thehindu.com/sci-tech/technology/bharatavani-portal-offers-digital-dictionaries-of-vanishing-indian-languages/article21249663.ece](http://www.thehindu.com/sci-tech/technology/bharatavani-portal-offers-digital-dictionaries-of-vanishing-indian-languages/article21249663.ece)

7.AICTE new rules: Technical institutes to publish complete list of fees on websites

[URL:http://www.hindustantimes.com/education/aicte-new-rules-technical-institutes-to-publish-complete-list-of-fees-on-websites/story-hYQFr6noRIQrjfwdtFuEJM.html](http://www.hindustantimes.com/education/aicte-new-rules-technical-institutes-to-publish-complete-list-of-fees-on-websites/story-hYQFr6noRIQrjfwdtFuEJM.html)

8.Gyan Darshan available through communication satellite GSAT-10: Ignou

[URL:http://www.hindustantimes.com/education/gyan-darshan-available-through-communication-satellite-gsat-10/story-d10xRXKIQZBpCKmx2u8WcJ.html](http://www.hindustantimes.com/education/gyan-darshan-available-through-communication-satellite-gsat-10/story-d10xRXKIQZBpCKmx2u8WcJ.html)

9.^{3rd} Indian Engineering Olympiad(IEO), February 2018

[URL:http://www.engineeringolympiad.in/](http://www.engineeringolympiad.in/)

10.HRD ministry sets up committee to suggest ways to regulate deemed universities

[URL:http://www.hindustantimes.com/education/hrd-ministry-sets-up-committee-to-suggest-ways-to-regulate-deemed-universities/story-HADslvilyayPuR8c7fjH6eO.html](http://www.hindustantimes.com/education/hrd-ministry-sets-up-committee-to-suggest-ways-to-regulate-deemed-universities/story-HADslvilyayPuR8c7fjH6eO.html)

11.Delhi University, IIT among 100 seeking world-class university tag from UGC

[URL:http://www.business-standard.com/article/current-affairs/delhi-university-iit-among-100-seeking-world-class-university-tag-from-ugc-117121201056_1.html](http://www.business-standard.com/article/current-affairs/delhi-university-iit-among-100-seeking-world-class-university-tag-from-ugc-117121201056_1.html)

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12. AICTE to crack whip against foreign varsities, Indian partners violating twinning rules

[URL: http://www.deccanherald.com/content/647815/aicte-crack-whip-against-foreign.html](http://www.deccanherald.com/content/647815/aicte-crack-whip-against-foreign.html)

13. Engineering colleges vacant seats: Students alert! The horrific nature of the situation revealed

[URL: http://www.financialexpress.com/opinion/engineering-colleges-vacant-seats-students-alert-the-horrific-nature-of-the-situation-revealed/970004/](http://www.financialexpress.com/opinion/engineering-colleges-vacant-seats-students-alert-the-horrific-nature-of-the-situation-revealed/970004/)

14. Google can never replace guru: Naidu

[URL: http://www.thestatesman.com/books-education/google-can-never-replace-guru-naidu-1502542593.html](http://www.thestatesman.com/books-education/google-can-never-replace-guru-naidu-1502542593.html)

15. IITs, JNU, DU and 100s other queue up for HRD's World Class Tag

[Url: https://timesofindia.indiatimes.com/home/education/news/iits-jnu-du-and-100s-other-queue-up-for-hrds-world-class-tag/articleshow/62066322.cms](https://timesofindia.indiatimes.com/home/education/news/iits-jnu-du-and-100s-other-queue-up-for-hrds-world-class-tag/articleshow/62066322.cms)

16. This Indian teacher is shortlisted for \$1 million Global Teacher Prize

[URL: http://indianexpress.com/article/education/this-indian-teacher-shortlisted-for-1-million-global-teacher-prize-4982191/](http://indianexpress.com/article/education/this-indian-teacher-shortlisted-for-1-million-global-teacher-prize-4982191/)

17. Devalued Degree: Encourage good colleges, shut the bad; experts suggest

[URL: http://indianexpress.com/article/education/devalued-degree-encourage-good-colleges-shut-the-bad-engineering-colleges-karnataka-empty-seats-investigation-4982136/](http://indianexpress.com/article/education/devalued-degree-encourage-good-colleges-shut-the-bad-engineering-colleges-karnataka-empty-seats-investigation-4982136/)

18. Impossible to run an institute without compromising on quality when there are so many unfilled seats: Anil Sahasrabudhe, AICTE Chairman

[URL: http://indianexpress.com/article/education/impossible-to-run-an-institute-without-compromising-on-quality-when-there-are-so-many-unfilled-seats-says-regulator-anil-sahasrabudhe-aicte-chairman-4978567/](http://indianexpress.com/article/education/impossible-to-run-an-institute-without-compromising-on-quality-when-there-are-so-many-unfilled-seats-says-regulator-anil-sahasrabudhe-aicte-chairman-4978567/)

19. Prakash Javadekar: 'Students must get quality education... Without quality, they are not going to seek admission'

[URL: http://indianexpress.com/article/education/prakash-javadekar-students-must-get-quality-education-without-quality-they-are-not-going-to-seek-admission-thats-the-large-message-4977049/](http://indianexpress.com/article/education/prakash-javadekar-students-must-get-quality-education-without-quality-they-are-not-going-to-seek-admission-thats-the-large-message-4977049/)

20. BTech (Fail): Empty seats, ghost campuses, unskilled graduates

[URL: http://indianexpress.com/article/education/btech-fail-empty-seats-ghost-campuses-unskilled-graduates-devalued-degree-4977240/](http://indianexpress.com/article/education/btech-fail-empty-seats-ghost-campuses-unskilled-graduates-devalued-degree-4977240/)

21. Cabinet Approves Bill For Formation of National Medical Commission

[URL: https://in.yahoo.com/news/cabinet-approves-bill-formation-national-144437609.html](https://in.yahoo.com/news/cabinet-approves-bill-formation-national-144437609.html)

22. FSSAI orders food safety audit in IITs, IIMs, AIIMS

[URL: http://indianexpress.com/article/education/fssai-orders-food-safety-audit-in-iits-iims-aiims-4983885/](http://indianexpress.com/article/education/fssai-orders-food-safety-audit-in-iits-iims-aiims-4983885/)

23. Oxford Dictionaries declare 'Youthquake' Word of the Year

[URL: http://www.thestatesman.com/books-education/oxford-dictionaries-declare-youthquake-word-year-1502545392.html](http://www.thestatesman.com/books-education/oxford-dictionaries-declare-youthquake-word-year-1502545392.html)

24. NITI Aayog to launch Atal lab community day tomorrow

[URL: http://www.thestatesman.com/india/niti-aayog-to-launch-atal-lab-community-day-tomorrow-1502544970.html](http://www.thestatesman.com/india/niti-aayog-to-launch-atal-lab-community-day-tomorrow-1502544970.html)

25. PGDM institutes can take only Rs 1,000 from fees if students withdraw admission

[URL: http://www.hindustantimes.com/education/pgdm-institutes-can-deduct-only-rs-1-000-from-admission-fees-if-students-withdraw-candidature/story-ZGM9vEU4CPb8sfkaDnEqNL.html](http://www.hindustantimes.com/education/pgdm-institutes-can-deduct-only-rs-1-000-from-admission-fees-if-students-withdraw-candidature/story-ZGM9vEU4CPb8sfkaDnEqNL.html)

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26.University of Tezpur, Panjab make it to Times Higher Education rankings

URL:<http://www.hindustantimes.com/education/university-of-tezpur-panjab-make-it-to-times-higher-education-rankings/story-VOJb8KSNXsdXJjsSwdYuBM.html>

27.UGC NET answer key for Nov 2017 exam released, check @ cbsenet.nic.in and raise objections now

URL:<http://www.hindustantimes.com/education/ugc-net-answer-key-for-nov-2017-exam-released-check-cbsenet-nic-in-and-raise-objections-now/story-q7w90yYANLHxKHi4SEqGIM.html>

28.Approval Process Handbook of AICTE 2017-18

URL:<https://www.aicte-india.org/sites/default/files/APH%202018-19.pdf>

1.Know about the Bitcoins

Bitcoin is a digital currency created in 2009. It follows the ideas set out in a white paper by the mysterious Satoshi Nakamoto, whose true identity has yet to be verified. Bitcoin offers the promise of lower transaction fees than traditional online payment mechanisms and is operated by a decentralized authority, unlike government-issued currencies. Today's market cap for all bitcoin (abbreviated BTC or, less frequently, XBT) in circulation exceeds \$7 billion.

There are no physical bitcoins, only balances kept on a public ledger in the cloud, that – along with all Bitcoin transactions – is verified by a massive amount of computing power. Bitcoins are not issued or backed by any banks or governments, nor are individual bitcoins valuable as a commodity. Despite its not being legal tender, Bitcoin charts high on popularity, and has triggered the launch of other virtual currencies collectively referred to as Altcoins

Source: Bitcoin <https://www.investopedia.com/terms/b/bitcoin.asp#ixzz51EgWT9aP>

2.Know about e Pg Pathasala (All gateway to Post graduates courses)

e Pg Pathasala is a project of MHRD under its national Mission on Education (NME-ICT) which has been developing the different no of e-content in 77 subjects at postgraduate level. The content and its quality is the key component of education system. Its web based materials are High quality, curriculum-based, interactive content in different subjects across all disciplines of social sciences, arts, fine arts & humanities, natural & mathematical sciences, linguistics and languages is being developed under this initiative named e-PG Pathshala. Till today 18706 Modules[e-text/Video] have been uploaded. For details please visit its website.

URL:<http://epgp.inflibnet.ac.in/>

URL:http://epgp.inflibnet.ac.in/pdf/CW_Model_V2.pdf

