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DAILY NEWS ANALYSIS

POLITY

ECONOMICS

SCIENCE AND TECHNOLOGY CHANDRAYAAN-3 SPACECRAFT

CONTEXT: Chandrayaan-3 separates; Lander module on descent path, rover to explore lunar surface, propulsion module carries scientific payload for extended operation.

BACKGROUND: Chandrayaan-3 combines lander, rover, and propulsion modules for lunar exploration. Lander to softly touch down, deploy rover for chemical analysis. Propulsion module carries the SHAPE payload, aiming to assess exoplanet habitability. Lander and rover operate for one lunar day, while the propulsion module continues its orbit, aiding Earth and exoplanet study.

HIGHLIGHTS: Chandrayaan 3's lander successfully separates from the propulsion module for imminent Moon soft landing on Aug 23. Mission aims to achieve lunar roving and soft landing, addressing the predecessor's goals. Global interest stirs as India and Russia prepare for South Pole lunar landings with Chandrayaan-3 and Luna-25 missions next week.



SOCIAL JUSTICE P IS FOR POLICY, PRESCHOOL, AND POTENTIAL

GIST: Detailed guidelines for the universal right of children from three to six years to access learning, which States are now beginning to implement, albeit in a fragmented manner.

- With the 2020 National Education Policy (NEP) stipulating that early childhood education (ECE) for children from three to six years be taken care of by anganwadis, States like Haryana are developing plans to make preschool-based learning available here.
- The premise of preschool itself is that over 85% of a child's brain development occurs by the age of six, and the mind and body need to be stimulated in ways that encourage growth.
- As per the NEP, free preschool education can be imparted in four ways: through

TECHNOLOGY

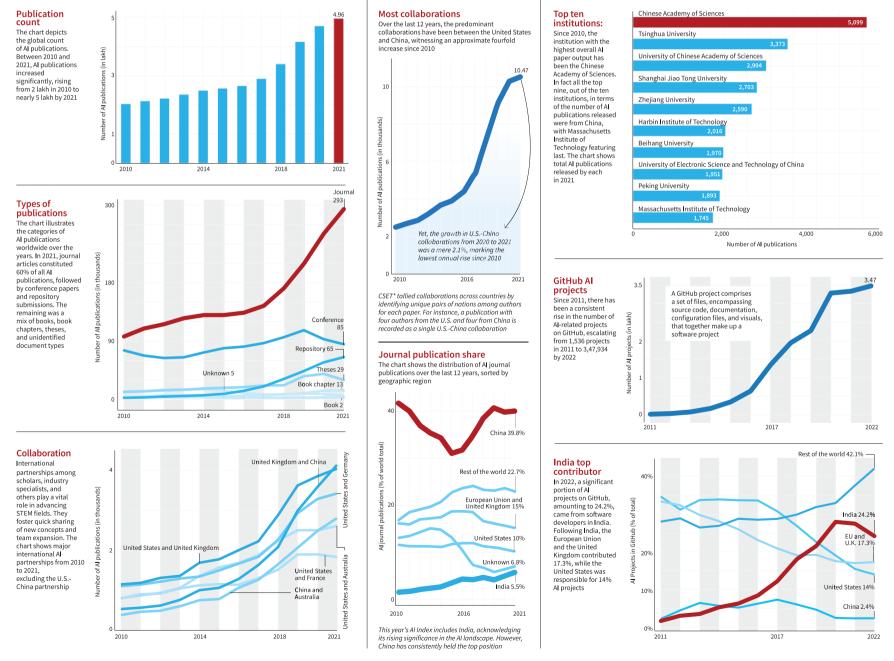
ECOLOGY

- \circ anganwadis either located within government schools, or
- o as stand-alone entities,o through government schools that have a preschool, or
- through government schools that have a presch o through stand-alone preschools.
- The system 10+2 set up by NEP 1986 previously, was replaced by 5+3+3+4. The previous system started with Grade 1 and never included children of preschool in the education system, which states that it wasn't considered necessary.
- However, as per the NEP 2020 for preschools, education for children of age 3 6 years will be considered mandatory. The first 5 years of education will include 3 years of preschool education and 2 years of primary education. The ages in the structure will be divided as 3-8, 8-11, 11-14 and 14-18 years.
- All the stages of education are named differently according to their purpose. The first stage of 3-8 years will be known as the foundational stage, followed by 8-11 years as preparatory stage, which is succeeded by the middle stage of 11-14 years, and the last stage of 14-18 years as secondary stage according to NEP 2020 for preschool.
- Early childhood education, given at the age of 3-5 was never considered a part of schooling. However, the new NEP 2020 for preschool makes it a part of formal schooling.
- The program named as mid-day meal, which was available till primary education, will be extended to the batch of pre-schools too.
- All students upto Class 5 will be taught in their regional language or mother tongue.
- Researches show that the past few years have seen a commendable growth in the importance of early childhood education. It impacts a child's development in the right way and builds the necessary personality after years.
- All these changes made by NEP 2020 for preschool ensures that children get a quality education by the end of 2030 so that they are able to live a standard life and build a good career for themselves. It will ensure the development and growth of the country in the right way as well. Students will be prepared in advance to enter a higher stage of education.
- It is expected that NEP 2020 will be implemented properly throughout the country by 2040. In order to make everything stated in the policy real, it will take time and hardwork and many qualified teachers. The government will ensure that it is implemented smoothly.
- Investment in early childhood education is similar to investment in the future of the country. NEP 2020 for preschool ensures that quality education is provided to all the students including underprivileged as well, only then the policy will be implemented to its full use and will flourish.

SCIENCE AND TECHNOLOGY

INDIA TOPS AI PROJECTS IN GITHUB

CONTEXT: India leads in GitHub Al projects, showcasing significant contributions and expertise in artificial intelligence development.



Citation: Nestor Maslej, Loredana Fattorini, Erik Brynjolfsson, John Etchemendy, Katrina Ligett, Terah Lyons, James Manyika, Helen Ngo, Juan Carlos Niebles, Vanessa Parli, Yoav Shoham, Russell Wald, Jack Clark and Raymond Perrault, "The AI Index 2023 Annual Report," AI Index Steering Committee, Institute for Human-Centered AI, Stanford University, Stanford, CA, April 2023. * Center for Security and Emerging Technology

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IS THERE A NEED TO REPLACE THE IPC, THE CRPC AND THE EVIDENCE ACT?

CONTEXT: On August 11, 2023, Union Home Minister Amit Shah introduced three Bills in the Lok Sabha; the Bharatiya Nyaya Sanhita Bill to replace the Indian Penal Code, 1860, the Bharatiya Nagarik Suraksha Sanhita Bill to replace the Code of Criminal Procedure, 1973 and the Bharatiya Sakshya Bill to replace the Indian Evidence Act, 1872.

Detention without charge

There is a debate going on across the world in terms of criminal justice jurisprudence, which talks about keeping someone in detention without being charged. In Scotland, the amount of time for which you can keep someone in detention without bringing charges against them is six hours. However, in our country, it was 60 days and the new Bill proposes 90 days. So, it seems we are going in the opposite direction. The new CrPC seems to have formalised this principle not just for acts related to terrorism, but for any IPC offence.

Right to handcuffing

As far as handcuffing is concerned, We don't think anyone understands how big of a concern it is for the police. It is alright for the Supreme Court to say in the D.K. Basu vs State of West Bengal (1996) case that people should not be handcuffed. But if you see the practice in many democratic countries, there are stringent provisions about handcuffing. I have seen heads of state being handcuffed. In India, even if a man is a member of the mafia, you can't handcuff him. And then why should you force me (the police) to touch somebody? He may be suffering from some skin disease. One doesn't know how filthy or dirty he [the accused] is, so I don't want to hold him by his hand.

INTERNAL SECURITY

INS VINDHYAGIRI

President Droupadi Murmu launched Vindhyagiri, the last in the series of three Project 17A (Alpha) frigates built by the Indian Navy at the Kolkata-based Garden Reach Shipbuilders and Engineers (GRSE).



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Main Features of the Bharatiya Nyay Sanhita Bill, 2023

- The bill defines terrorism and offenses such as separatism, armed rebellion against the government, challenging the sovereignty of the country, which were earlier mentioned under different provisions of law.
- It repeals the offense of sedition, which was widely criticized as a colonial relic that curbed free speech and dissent.
- It prescribes capital punishment as the maximum sentence for mob lynching, which has been a menace in recent years.
- It proposes 10 years imprisonment for sexual intercourse with women on false promise of marriage, which is a common form of deception and exploitation.
- The bill introduces community service as a form of punishment for specific crimes, which can help in reforming offenders and reducing overcrowding in prisons.
- The bill fixes a maximum limit of 180 days to file a charge sheet, which can speed up the trial process and prevent indefinite delays.

The fact that they have attempted to define terrorism, is a step in the right direction. It is good that organised crimes have been defined. Once the trial concludes, the judgment has to be given within 30 days and only two adjournments are allowed. I think these are welcome changes with the intention of expediting the criminal justice system.

Some provisions that say if you can't finish the trial within six months in petty offences, then that person will not be tried. So that is welcome. But this pertains to only petty offences and has not been linked with serious offences.



DIASTER MANAGEMENT 'FLOODWATCH'

CONTEXT: The Central Water Commission launched an app, called 'Floodwatch', which can forecast the chances of floods a day in advance.

The app will also provide State-wise/basin-wide flood forecast up to 24 hours or flood advisory, up to seven days, that can be accessed via selecting specific stations

The app has a map of India coloured circles at water stations across the country indicating the current risk of flooding. A 'Green' circle indicates 'normal'; Yellow, above normal; Orange, 'severe'; and Red, 'extreme'.

ECONOMICS AND DEVELOPMENT **PM VISHWAKARMA SCHEME**



PM Vishwakarma

Central Sector Scheme to support traditional artisans and craftspeople of rural and urban India



- Financial outlay of Rs.13,000 crore
- Eighteen traditional trades to be covered in the first instance
- Artisans and craftspeople to be provided recognition 0 through PM Vishwakarma certificate and ID card
- Credit Support upto Rs.1 lakh (First Tranche) and Rs.2 lakh (Second Tranche) with a concessional interest rate of 5%.

16 August 2023

 Scheme to provide Skill Upgradation, Toolkit Incentive, incentive for Digital Transactions and Marketing Support.

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ECONOMICS AND DEVELOPMENT E-COURTS PROJECT

CONTEXT: The Union Budget 2023-24 had announced the launch of Phase 3 of the e-courts project with an outlay of ₹7,000 crore. The first two phases of the project were planned and executed with an overall budget of ₹639.411 crore and ₹1,670 crore, respectively. The e-courts project aims to develop a hybrid model, allowing for physical and virtual courts to co-exist.

The third phase of the e-courts project would see technology make inroads into the working of the judiciary, especially the lower courts. Phase 3 of the project sought to interlink courts across the country, besides setting up the infrastructure of paperless court, digitisation of court records, and opening of advanced e-Sewa Kendras in court complexes.

The Policy and Action Plan document of the e-committee of the Supreme Court headed by the Chief Justice had described the e-court plan as an "integrated mission mode project" to help in the judiciary's efforts to "transform itself by implementing tools and means of Information and Communication Technology".



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ECONOMICS AND DEVELOPMENT

PRICE WATCH

CONTEXT: Headline inflation is expected to average well above 6% in the second quarter' as the incidence of supply shocks was not over and the elevation in vegetable prices had extended into the first half of August.

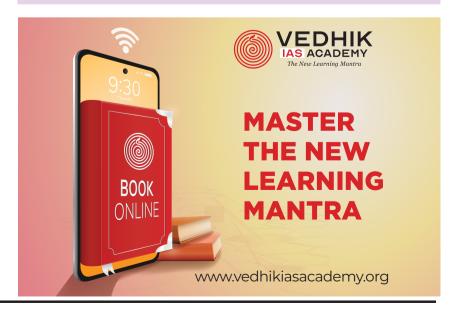
Supply side shocks

1. Low rainfall emerging out of an El Nino scenario.

2. Outlook on crude oil prices that is marred by 'engineered' supply shortfalls with production cuts by key **OPEC+** suppliers

NSO data showed retail inflation was estimated to have accelerated sharply to a 15-month high of 7.44 % in July. The RBI's Monetary Policy Committee in July 2023 forecasted inflation to average 6.2 % in the ongoing July to September quarter.

The vulnerability of the economy to recurring incidence of vegetable price shocks, especially ahead of and during the monsoon, warrants major reforms in perishable supply chains covering transportation networks, warehousing and storage technologies, and value addition processes that damp the amplitude of these swings. Stable prices for consumers, assured supplies and remunerative proceeds for farmers will follow when these reforms lead to efficiency and productivity gains while preserving the quality of output and building up insulation against food inflation from climatic events.





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