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SREE SANKARACHARYA UNIVERSITY OF SANSKRIT KALADY

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Technological Transformations In Fisheries

India is the largest fish producing country, contributing 8 percent to the global fish production and ranks second in aquaculture production. This sector stands as a significant component of the economy recognized as a powerful generator of income and employment. This sector serves as a source of livelihood, employment and entrepreneurship for fishermen and fish farmers with additional employment opportunities. In the 21st century, the fisheries industry is undergoing a profound transformation driven by technological advancements.

Global Fisheries Conference India 2023

On the occasion of World fisheries Day the ministry of Fisheries, Animal Husbandry and Dairying, Government of India organized the first edition of Global Fisheries Conference 2023 in Gujarat which concluded on 22nd November with a resounding call for technological innovation and collaboration to invigorate India's fisheries sector. The conference marked a significant milestone in fostering progress and sustainability in India's fisheries landscape.

Latest Technology and Trends

- **Aquaculture Automation:** Automation technologies are revolutionising aquaculture by improving precision and reducing manual labour.
- **Remote Sensing and Satellite Technology:** They provide real-time data on ocean conditions, fish migration patterns and environmental changes.
- **Fisheries Robotics:** Autonomous underwater vehicles (AUVs) and remotely operated vehicles (ROVs) are increasingly used for tasks such as fish population surveys, habitat mapping and underwater inspections.
- **Block chain for Traceability:** It is being employed to establish transparent and traceable supply chains in the fisheries industry.
- **Genomic Tools for Aquatic Species:** Advances in genomics are aiding in the selective breeding of fish for desired traits such as growth rate, disease resistance and nutritional content.

Sought-after Careers in Fisheries

- **Aquaculture Technology :** Job opportunities in this field involves the use digital tools for monitoring water quality, automated feeding systems and data analytics for optimizing production.
- **Fisheries management and Conservation:** Professionals can engage in roles that involve using satellite imagery, GIS and data analytics to monitor fish stocks and track migration patterns.
- **Fish Processing and Value Addition:** Due to the impact of digital age in value addition, youth can explore the roles in the development and implementation of automated processing technologies and quality control systems.
- **E-Commerce and Marketing:** Young professionals can explore careers in digital marketing, e-commerce plat-forms and online marketplaces dedicated to seafood products.
- **Data Analytics and Fisheries Research:** Youth with a background in data science can explore opportunities in analysing fisheries data to make predictions about fish populations, optimising fishing strategies and contribute to scientific research in this field.
- **Technology Entrepreneurship:** The fishery sector presents opportunities for young entrepreneurs to develop innovative solutions including the creation of apps for fishermen, smart fishing gear or sustainable aquaculture technologies.
- **Training and Capacity Building:** Youth can engage in roles related to educating fishermen and industry professionals on the use of digital tools, safety practices and sustainable methods.

Aspiring professionals can specialise in areas such as fish health, sustainable fisheries management, or seafood marketing etc.

Popular job roles involving the above discussed disciplines include (not limited to) the following:

- *Aquaculture Manager*
- *Fisheries Scientist/Researcher*
- *Seafood Quality Assurance Specialist*
- *Marine Biotechnologist*
- *Fisheries Economist*
- *Aquatic Environmental consultant*
- *Fishery Management Specialist*
- *Aquatic Veterinarian*
- *Fisheries Technology Specialist*
- *Aquaponics Specialist*

With the global population on the rise, the fisheries sector plays a vital role in ensuring food security. Sustainable Fisheries management is essential to meet the growing demand for seafood. Overfishing, habitat degradation and climate change, pose threats to aquatic ecosystems and individuals in the fisheries sector play a crucial role in mitigating these challenges. By emphasising sustainable resource management and conservation professionals/ experts contribute to maintaining biodiversity and preserving aquatic ecosystems for future generations and to promoting long-term food security.

Colleges and Courses

In India, there are several colleges, universities and institutions that offer various courses in the field of fisheries. Here is a list of some notable institutions.

- *Central Institute of Fisheries Nautical & Engineering Training (CIFNET)*
- *Indian Council of Agricultural Research(ICAR) Institutes*
- *Central Institute of Fisheries Education (CIFE), Mumbai*
- *Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi*
- *Cochin University of Science and Technology (CUSAT), Kochi*
- *College of Fisheries, Manglore*
- *Fisheries College and Research Institute (FCRI),Tamilnadu*
- *Andhra University, Visakhapatnam*
- *Tamil Nadu Fisheries University (TNFU), Nagapattinam*
- *West Bengal University of Animal and Fishery Sciences (WBUAFS), Kolkata*
- *College of Fisheries, Ratnagiri (Dr Balasaheb Sawant Konkan Krishi Vidyapeeth)*

Scope of Fisheries and Fishing Technology Courses and Eligibility

Undergraduate and post graduate courses encompass a diverse range of subjects including the study of fishes, ecosystems, diseases and their nutrition. The course serves as a scholarly exploration into the multifaceted world of aquaculture, incorporating disciplines such as breeding, genetics, farming and nutrition. Within the curriculum, students engage with the nuances of fishing processing, covering aspects like curing, canning, freezing, value addition by-products and waste utilization, quality assurance and certification. Also the programme explores fisheries microbiology and fisheries biochemistry. Fisheries resource management is a focal point addressing topics such as biology, anatomy, taxonomy, physiology and population dynamics. The fisheries environment is thoroughly investigated, drawing from oceanography, limnology, ecology, biodiversity and aquatic pollution studies. Fishing technology encompasses craft engineering, navigation, seamanship and marine engines. The curriculum also extends to fisheries economics and management.

Admission to the BSc. Fisheries program typically involves clearing entrance exams conducted by colleges and universities after Plus two in Science stream.

Notifications

RRB ALP Recruitment 2024		NIACL Assistant Recruitment 2024	
Organization	Railway Recruitment Board	Organization	New India Assurance Company Ltd
Posts Name	Assistant Loco Pilots	Posts	Assistant
Vacancies	5696	Vacancies	300
Online Registration	20 th January to 19 th February 2024	Registration Dates	01 st to 15 th February 2024, online
Selection Process	CBT I, CBT II, CBAT Document Verification	Selection Process	Prelims and Mains
Salary, Pay Level	Rs.19,900/-, Level-2	Salary	Rs. 37,000 per month
Age Limit	18 to 33 Years	Age Limit	21-30 Years
Edu. Qualification	Matriculation + ITI/ Diploma	Eligibility	Graduate
Official website	https://www.rrbcdg.gov.in/	Official Website	www.newindia.co.in
CRPF Sports Quota Recruitment 2024		SSC Selection Post Phase 12 Notification	
Post Name	Constable (General Duty)	Post Name	Matriculation Posts, 10+2 Posts, Graduation and Above Posts
Total vacancies	169	Total vacancies	5000+
Qualification	Matric, Sports Qualification	Qualification	10 th or 10+2 Pass for some Group C Posts or Graduation and Above for some Group C
Last date to apply	15/02/2024	Last date to apply	----
Age Limit	18 to 23 years	Age Limit	18–25 yrs/ 18–27 yrs/ 18–30 yrs
Salary	Level 3 ₹ 21,700 - 69,100/-	Salary	Level 1 to Level 7.
Selection Process	Documentation, Physical Standard Test , Detailed Medical Examination	Selection Process	CBT I, Document Verification
Official website	https://rect.crpf.gov.in/	Official website	https://ssc.nic.in/Portal/

Forthcoming Exams

Sl. No.	Name of the Exam	Date of Exam	Eligibility Criteria	Age Limit
1	JEE (Main) 2024 Conducted by National Testing Agency (NTA)	Section I 24.01.24 to 01.02.24 Section II 01.04.24 to 15.04.24	10+2 (Senior Secondary) Pass	-
2	GATE 2024 Graduate Aptitude Test in Engineering	03.02.2024 04.02.2024 10.02.2024 11.02.2024	Graduate in Engg/ Technology/ Architecture/ Science/ Commerce/ Arts	varies
3	UPSC Combined Geo-Scientist Examination 2024	Stage I 18.02.2024	varies	21-32 yrs
4	UPSC Engineering Service Examinations 2024	Preliminary 18.02.2024 (Sunday) Main 23.06.2024	Degree/ Diploma(Engg)/ Masters Degree	30 yrs
5	SSC Constable (GD) in Central Armed Police Forces SSF and Rifleman (GD) in Assam Rifles Exam 2024	Computer Based Test 20-29 February & 1,5,6,7,11 & 12 March 2024	Matriculation or 10 th class exam from a recognized Board/ Uty	18-23 yrs
6	Common University Entrance Test CUET(PG)-2024	Computer Based Test 11.03.24 to 28.03.24 Pen-Paper (OMR) 15.05.24 to 31.05.024	Passed the Class 12 th equivalent examination	-
7	UPSC Combined Defense Services Exam (I) 2024 [Including SSC Women (Non-Technical) Course]	21.04.2024	varies	varies
8	UPSC National Defense Academy & Naval Academy Examination (I)- 2024	21.04.2024	12 th Class pass with Physics & Maths	Born b/w 02.07.05 & 01.05.08
9	National Eligibility –cum- Entrance Test- (Undergraduate)	05.05.2024	12 th Class pass	-
10	UPSC Civil Services Exam 2024	Prelims: 26.05.2024	Degree from a recognized uty	21-30 yrs
11	Indian Forest Service (Preliminary) Examination 2024	26.05.2024	Degree from a recognized uty	varies
12	UGC-NET 2024 Session I	Computer Based 10.06.24 to 21.06.24	Master's Degree	Under 30 yrs

NB: Candidates are advised to visit the official website and notification for further details.

Days in February

Feb01 Indian Coast Guard Day (Indian Coast Guard was officially established in 1977)	Feb02 World Wetlands Day (Convention on Wetlands was adopted on 2 February 1971, in Ramsar, Iran. It was first celebrated in 1997.)	Feb04 World Cancer Day (The day is organized by the Union for International Cancer Control (UICC)) National Day of Sri Lanka	Feb06 International Day of Zero Tolerance To Female (To spread awareness about violation of the human rights of girls and women. UN General Assembly in 2012 adopted a resolution on the elimination of FGM)
Feb08 International Safer Internet Day (The day started as an initiative of the EU Safe Borders project in 2004. Aim is to make the internet a safer and better place for all, mainly for children and young people)	Feb09 Baba Amte Death Anniversary (Murlidhar Devidas Amte, born on December 26, 1914)	Feb10 National Deworming Day (NDD was launched in 2015, one of the largest public programmes implemented on a single day) World Pulses Day The UN General Assembly proclaimed 10 Feb. to be observed as World Pulses Day in 2019	Feb11 World Day of The Sick (The day was declared by Pope John Paul II in 1992 and coincides with the commemoration of Our Lady of Lourdes.) International Day of Women and Girls in Science
Feb12 Darwin's Day (Birth anniversary of the father of evolutionary biology, Charles Darwin who was born in 1809)	Feb13 World Radio Day (The 36th session of UNESCO's General Conference proclaimed 13 Feb. as World Radio Day.)	Feb14 Saint Valentine's Day (Officially known as the Feast of Saint Valentine)	Feb16 World Anthropology Day (It was established in 2015 by the American Anthropological Association (A.A.A.)
Abraham Lincoln's Birthday National Productivity Day	Sarojini Naidu's Birth Anniversary (13.02.1879)		
Feb20 World Social Justice Day (In 1995, the World Summit for Social Development was held in Copenhagen, Denmark) Arunachal Pradesh Foundation Day	Feb21 International Mother Language Day (In November 1999, the General Conference of the UNESCO proclaimed International Mother Language Day. It is celebrated due to the initiative of Bangladesh)	Feb22 World Thinking Day (Has been observed since 1926, is celebrated as a day of international friendship and is a platform for the World Association of Girl Guides, and Girl Scouts members)	Feb23 World Understanding and Peace Day (Serves to remember Rotary International's inaugural convention which was founded in Chicago, and is an organization devoted to humanitarian service, world peace, and goodwill.)
Feb24 Central Excise Day (The passing of the Central Excise and Salt Act (1944) is commemorated on this day and honors the contribution of the CBIC to the country)	Feb27 World NGO Day (Social entrepreneur Marcis Liors Skadmanis founded it in the beginning in 2009) National Protein Day	Feb28 National Science Day (To pay tribute to Dr. C.V Raman for his discovery Raman Effect. which got Nobel Prize in 1930) Rare Disease Day	

Current Affairs

India has nominated **the “Maratha Military Landscapes of India” for the UNESCO World Heritage List in 2024-25.** The sites showcase the strategic military capabilities of the Maratha Empire between the 17th & 19th centuries. They were developed under Maratha ruler Shivaji Maharaj from 1670CE, continuing through subsequent rulers until 1818.

The inaugural **India-Saudi Arabia joint military exercise ‘SADA TANSEEQ’** commenced on January 29th in Rajasthan. The aim is to develop interoperability, camaraderie and friendship between the troops.

On January 26th, 2024, Alabama used **nitrogen hypoxia** to execute a death row inmate for the first time, marking the debut of a controversial and risky method in US.

The central government has identified 30 cities of religious, historical, and tourism significance across India for survey and rehabilitation of adults and children engaged in begging to make these spaces free of beggary by 2026. This outreach in 30 cities is being implemented under the “Support for Marginalized Individuals for Livelihood and Enterprises” (**SMILE**) scheme by the Ministry of Social Justice and Empowerment.

Researchers from the National Bureau of Fish Genetic Resources (NBFGR) have discovered **two new species of Congrid eels from the coasts of Tamil Nadu and Kerala.** The eel found in the [Gulf of Mannar](#) has been named *Ariosoma kannani*, honoring the late Prof. L Kannan, renowned marine biologist from Annamalai University. The Kerala coast species is called *Ariosoma gracile* for its morphological traits.

The military regimes ruling the 3 Sahelian nations—Burkina Faso, Mali and Niger have announced their immediate withdrawal from the Economic Community of West African States which is a regional political and economic union established on 28 May 1975 through the Treaty of Lagos. The surprise exit is being called a **“sovereign decision” taken without delay.**

The central government has announced **Bharat Ratna for the former Deputy Prime minister L K Advani and late Bihar leader Karpoori Thakur** in his birth centenary year. Bharat Ratna has been conferred upon 50 individuals to date. The award was established in 1954.

The Similipal kai chutney, made with red weaver ants by the tribal people of Odisha’s Mayurbhanj district, received a geographical indication (GI) tag on January 2nd, 2024. The savory ant chutney is renowned in the region for its nutritional and medicinal properties.

The National Highways Authority of India has started a **‘One Vehicle, One FASTag’** initiative. This aims to enhance Electronic Toll Collection (ETC) efficiency and improve traffic movement at toll plazas. NHAI took this decision after increased cases of multiple tags per vehicle and KYC violations.

Prime Minister Narendra Modi recently announced the **‘Pradhan Mantri Suryodaya Yojana’**, a new government scheme to promote rooftop solar power systems which aims to boost India’s renewable energy goals and reduce electricity bills for households.

Scientists have uncovered the **most ancient skin fossil**, dated to about 286 million years old. The textured fragment exceeds previously known skin fossils by over 21 million years. Microscopic observation revealed detailed skin tissues seen in amniotes—the group including reptiles, birds and mammals.

On January 5th, 2024 India’s Ministry of Electronics and Information Technology (MeitY), launched a new integrated **web portal by ERNET India.** The portal offers several domain name and website services tailored for educational institutes

General Awareness

1. What is 'Armado', recently mentioned in the news?
Armoured Light Specialist Vehicle (ALSV) - The new Mahindra Armado, India's first Armoured Light Specialist Vehicle (ALSV), debuted at the Republic Day Parade.
2. Recently, which Indian company launched India's first artificial intelligence unicorn 'Krutrim'?
Ola
3. Which country is the second-largest producer of 'Tasar silk', recently seen in the news?
India - India is the second-largest global producer after China
4. **INSAT-3DS**, recently launched by ISRO, is what kind of satellite?
Meteorological satellite - GSLV-F14) will deploy it, joining INSAT-3D and INSAT-3DR.
5. The 4th National Chilika Bird Festival was held from January 27–29, 2024. **Chilika Lake** is situated in which state?
Odisha - The festival celebrates the 10 lakh birds of 200 species visit during the winter.
6. Recently, which two states signed a MoU on **Modified Parbati-KalisindhChambal-ERCP (PKC-ERCP) Link Project**?
Rajasthan and Madhya Pradesh- It aims to supply drinking and industrial water to 13 districts, connecting sub-basins within Chambal Basin.
7. What is the name of the **first deep sea port of Bangladesh** that was recently making news?
Matarbari Port- This port is being developed with assistance from Japan
8. Which country is host of **19th Summit of the Non-Aligned Movement, 2024**?
Uganda- held from January 17 to 20 in Kampala, Uganda
9. Who is the **author of "Chip War: The Fight for the World's Most Critical Technology"**?
Chris Miller- It explains the US-China semiconductor rivalry, has been invited to address Tamil Nadu's Global Investors Meet.
10. Which motivational speaker and NGO founder was appointed as a **brand ambassador for the government's Viksit Bharat Abhiyan initiative**?
Amitabh Shah- NGO Yuva Unstoppable has skilled over 6 million young beneficiaries so far.
11. Which two entities have been selected for the **Rashtriya Khel Protsahan Puruskar 2023**?
Jain University & Odisha Mining Corp
12. Which organizations were involved in the development of the **humanoid robot ALOHA**?
Google DeepMind and Stanford University
13. Which reserve has been named **India's first 'International Dark Sky Park'** ?
Pench Tiger Reserve in Maharashtra - by the International Dark-Sky Association (IDA)?
14. **Exercise Cyclone**, recently in the news, is conducted between which two countries?
India & Egypt - taking place in Anshas, Egypt, from January 22 to February 1, 2024
15. Which district of Kerala is set to **host the International Literature Festival**?
Thrissur - Themed "Literature, culture and progress," the seven-day festival

VG Activities



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**“The elevator to success is out of order.
You’ll have to use the stairs, one step at a time.”**

—Joe Girard

Joseph Samuel Girardi (November 1, 1928 – February 28, 2019), better known as Joe Girard, was an American salesman, motivational speaker, and author.

Girard sold 13,001 cars at a Chevrolet dealership between 1963 and 1978, and was recognized by the Guinness Book of World Records as the seller of the most cars in a year (1,425 in 1973).