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UNIVERSITY EMPLOYMENT INFORMATION & GUIDANCE BUREAU

NATIONAL EMPLOYMENT SERVICE (KERALA)

SREE SANKARACHARYA UNIVERSITY OF SANSKRIT KALADY

Bulletin APRIL 2024

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Robotics &Automation-
Crafting a career in Robotics

In the current era of technological transformation, Robotics has emerged as a pivotal force shaping global industries. Rapid advancements in technologies such as rapid prototyping, Cloud computing, the internet of Things, and Artificial Intelligence have propelled the widespread integration of robots across various sectors, including healthcare, automotive, and space exploration. This surge in robotic applications demands an immediate focus on up-skilling and re-skilling individuals involved in the conception, design, development, manufacturing, and operation of robots.

Robots come in various forms, ranging from industrial giants to compact, intelligent gadgets. They find their place in numerous domains like; Home Electronics, AI & Machine Learning, Bio -engineering and Health care, Aerospace. Popular categories of Robots are Industrial Robots, Service Robots, Medical Robots, Autonomous Vehicles, Humanoid Robots, Cobots, Agricultural Robots, Exploration and Space Robots, Defense and Military Robots, Educational Robots, Entertainment Robots etc.

Crucial skills for Robotics

A strong foundation in technical skills, especially in mathematics, engineering, and computer science, is essential. The ability to navigate complex algorithms, programming languages, and intricate systems is paramount. Another skills like Passion for Innovation, Problem-Solving skills, Creativity, Adaptability, Communication Skills, Patience are also essential for the career growth in this field.

National Robotics Strategy

The Government of India has proposed the National robotics Strategy, the draft of which was recently floated for stakeholder consultations. The intent behind the proposed strategy is to leverage Robotics in realizing the potential of Industry 4.0. And over the past couple of decades, several initiatives have been taken to catalyse the Robotics ecosystem, including the establishment of technology innovation hubs and research centres such as the AI & Robotics Technology Park (ARTPARK) I-hub Foundation for Cobotics (I-FC), and the involvement of the Defense Research & Development Organization (DRDO) in Robotics & AI Research.

Turning Challenges into Opportunities

India's Robotics ecosystem faces many of challenges, including inadequacy of skilled human resources, creating a demand for engineers and technicians well-versed in designing, developing, and maintaining Robots. High cost of Robot integration has created greater necessity for professionals who can streamline this process and maintain Robots efficiently. In India's rapidly evolving landscape, the role of Robotics is set to redefine key sectors that promise greater efficiency, productivity and safety. Industry experts predict that Robotics is set to play a more pivotal role in the fields like Manufacturing, Agriculture, Healthcare and National Security.

Entrance Exams

Various entrance examinations for securing admission into prestigious institutions are

- Joint Entrance Exam Main(JEE Main)
- Joint Entrance Examination Advanced (JEE Advanced)
- Graduate Aptitude Test in Engineering(GATE)
- Birla Institute of Technology and Science Admission Test(BITSAT)
- Kerala Engineering/Agricultural/Medicl Entrance Examination (KEAM)
- Vellore Institute of Technology Engineering Entrance Examination(VITEEE)
- Telangana State Engineering/Agriculture/Medical Common Entrance Test(TS EAMCET)
- Consortium of Medical Engineering and Dental Colleges of Karnataka Under-Graduate Entrance Test(COMEDK UGET)
- Odisha Joint Entrance Examination (OJEE)
- Rajasthan Polytechnic Exam (Rajasthan Polytechnic Exam)

Colleges that offer Robotics Courses

- Indian Institute of Technology, Roorkee
- Thapar University , Patiala
- SRM Engineering college, Kanchipuram
- Chandigarh University, Chandigarh
- Lovely professional University, Jalandhar
- Visvesvaraya Technological University, Belgaum
- Birla Institute of Technology and Science (BITS), Pilani
- Indian Institute of Science, Bangalore
- Manipal Institute of Technology, Manipal
- Jadavpur University, Kolkata
- Indian Institute of Technology, Kanpur
- Indian Institute of Information Technology, Allahabad
- Indian Institute of Information Technology, Pune
- Bhubanananda Odisha School of Engineering, (BOSE) Cuttak
- Defense Institute of Advanced Technology, Pune
- Dr. DY Patil Institute of Technology, Pune
- Indira Gandhi Delhi Technical University for Women, Delhi
- Indian Institute of Technology, Kanpur
- Dr. Vishwanath Karad MIT World Peace University, Pune
- Amity University, NOIDA
- Madras Institute of Technology, Chennai
- The National Institute of Engineering, Mysore
- Symbiosis Institute of Technology, Pune
- Karunya Institute of Technology and Sciences, Coimbatore

Colleges in Kerala

1	Rajiv Gandhi Institute of Technology, Pampady, Kottayam	30 seats	Government
2	Adi Sankara Institute of Engineering & Technology	60 seats	Private Self Financing Colleges
3	Toc H Institute of Science & Technology, Arakkunnam, Ekm	60 seats	
4	IES College of Engineering, Chittilappilly, Thrissur	60 seats	
5	KMEA Engineering College, Edathala, Aluva, Ernakulam	30 seats	
6	Rajadhani Institute of Engineering & Tech. Attingal, Tvm	30 seats	
7	Saintgits College of Engineering, Pathamuttam, Kottayam	120 seats	Autonomous

Popular Job Roles in Robotics

* **Automation Engineer** : Design, develop and maintain automated systems to streamline processes and increase efficiency in various industries.

* **Automation Engineering Manager**: Oversee teams of engineers ensuring the successful implementation of automation projects and optimizing production processes.

* **Automous Vehicle Design Engineer:** Specialize in creating self-driving vehicles, working on the design and development of autonomous systems.

* **Design Engineer**: Focus on creating the physical and mechanical aspects of robots and automated systems ensuring they meet performance and safety standards.

* **Engineering Manager**: Lead engineering teams, guiding projects.

* **Factory Automation Engineer**: Design and implement automated systems to improve manufacturing processes and reduce costs.

* **Research Engineer:** Work on cutting edge technologies, conducting research to develop new robotics solutions and improve existing systems

* **Robotic systems Engineer:** Focus on the entire system of robotics, from hardware to software.

* **Robotic and system Lead**: Guide teams in the development and integration of Robotics & Automation systems.

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Notifications

Staff Selection Commission

Posts Name	**Junior Engineer**
Vacancies	**968 nos**
Last Date to Apply	**18.04.2024**
Age Limit	Upto 30 Yrs as on 01.08.2024
Edu. Qualification	Degree/Diploma- Engineering
Selection Process	Computer Based Examination
Salary, Pay Level	35400-112400/-
Official website	https://ssc.gov.in.

Intelligence Bureau

Posts	**Group B & Group C**
Vacancies	**660 nos**
Last Date to Apply	**01.06.2024**
Age Limit	18-27 Yrs
Eligibility	Matriculation to BE/BTech
Selection Process	Written examination, Interview
Official Website	www.mha.gov.in

RRB

Post Name	**Technician Grade 1 & 3**
Total vacancies	**9144 nos**
Last date to apply	**08.04.2024**
Age Limit (DOB)	Technician GrI – 18-36 years Technician Gr III – 18-33 years
Qualification	For Technician Grade 1 – B.Sc./ B.Tech/ Diploma in Physics/
Selection Process	CBE, DV Schedule, Medical
Salary	Technician Gr. – 1 – Level 5
Official website	www.indianrail.gov.in/

Kerala High Court

Post Name	**Assistant**
Total vacancies	**45 nos**
Registration Dates	**02.05.2024**
Age Limit (DOB)	18 -35 Yrs
Qualification	Graduation with 50% Marks
Selection Process	Prelims, Mains, Interview
Salary	39300-83000
Official website	www.hckrecruitment.nic.in

Kerala PSC Notifications

| Kerala PSC | www.keralapsc.gov.in | | Gazette Date: 01.04.2024 | Last Date: 02.05.2024 |

Sl. No	Department	Cat. No.	Post	No. of vacancies
1	Medical Education	024/2024	Asst Professor in Emergency ergency Medicine	16
2	Medical Education	025/2024	Asst Professor in Cardio Vascular and Thoracic surgery	3
3	Drugs Control	026/2024	Analyst Grade-III	Anticipated Vacancies
4	Homoeopathi	028/2024	Medical Officer (Homoeo). By Transfer	-
5	Mining & Geology	029/2024	Assistant Geology	Anticipated Vacancies
6	Industries and Commerce	030/2024	Industries Extension officer	Anticipated Vacancies
7	Kerala Water Authority	031/2024	Draftsman Grade I (Electrical)	2
8	Kerala Agricultural University	032/2024	Farm Assistant Grade II (Agri)	162
9	Kerala Water Authority	033/2024	Overseer Grade I	Anticipated Vacancies
10	Kerala State Financial Enterprises Limited	034/2024	Peon/Watch	80
11	Medical Education	035/2024	Clinical Audiometrician GR.II	1
12	Universities in Kerala	036/2024	Overseer Grade II (Mechanical)	1
13	Kerala State Industrial Enterprises	037/2024	Attender Grade II	2
14	Kerala Drugs Control	038/2024	L D Technician	1
15	Travancore Titanium Product Limited	039/2024	Male Nursing Assistant	1
16	Kerala State Co-op. Rubber Marketing Federation limited	040/2024	Mixing yard Supervisor	2
17	Kerala State Co-operative Rubber Marketing Federation limited	041/2024	Mixing yard Supervisor	1
18	Various Govt. Owned Companies/ Corporations/Boards/ Authorities/ Societies	042/2024	Driver Cum Office Attendant (Medium/heavy)	Anticipate
19	Various Govt. Owned Companies/Corporation	043/2024	Driver Cum Office Attendant (Medium/heavy)	Anticipated Vacancies
20	Health Service	044/2024	Treatment Organizer Gr.II	Anticipated Vacancies
21	Agriculture Development and Farmer's Welfare	045/2024	Electrician	Anticipated Vacancies
22	Kerala Vocational Higher Secondary Edn	046/2024	Non Vocational Teacher Mathematics (Senior)	1 SR from ST only
23	General Education	047/2024	FT Jr Language Teacher (Hindi) (SR-ST)	District wise- Klm– 0
24	Health Service	048/2024	Junior Public Health Nurse Grade II (SR-ST)	District wise-Tsr – 01
25	Revenue	049/2024	Village Field Assistant (SR-ST)	District wise-Tsr –
26	Medical Education	050/2024	Assistant Professor in Physiology	Dheevara-01
27	Police (Kerala Civil Police)	051/2024	Sub Inspector of Police (Trainee)	SCCC- 01
28	Kerala Agro Machinery Corporation	052/2024	Overseer (Civil) (I NCA-	SC-01
29	Various Govt. Owned Companies/ Corporations/Boards/Authorities/Societies	053/2024	Driver cum Office Attendant	1 (One) (1st) NCA – LC/A
30	Indian Systems of Medicine/Insurance Medical Services/ Ayurveda Colleges	054-057/ 2024	Pharmacist Gr-II (Ayurveda)	**054-** Klm-01, **055-** Tsr-01 **056-**Ksgd- 01, plkd -01 **057-** Plkd- 01
31	Various	058-060/ 2024	Confidential Assistant	**058/2024** LC/AI-Klm- 01, Idk-01 **059/2024** Hindu Nadar Kzkd-01 **060/2024** SCCC-Kzkd-01
2	Various (Except NCC, Tourism, Excise, Police, SWD and Transport	061-2024	Driver Gr.II (HDV) /Driver Cum Office Attendant	2
33	Various(Except NCC, Tourism, Excise, Police, SWD and Transport	062-2024	Driver Gr.II (LDV) /Driver Cum Office Attendant	2

Forthcoming Exams

SlNo	Name of the Exam		Last Date to Apply	Date of Exam
1	**Sree Sankaracharya Uty of Sanskrit** PG Entrance	www.ssus.ac.in	07.04.2024	15.04.2024
2	**CMI**	www.cmi.ac.in/	15.04.2024	19.05.2024
3	**SET** (State Eligibility Test)	www.lbscentre.kerala.gov.in	15.04.2024	28.07.2024
4	**CUCAT -Calicut University-** PG Programmes in University Departments -Entrance	www.uoc.ac.in	15.04.2024	Will be announced later
5	**KEAM 2024 KEAM 2024**	www.cee.kerala.gov.in	17.04.2024	01.06.2024 - 09.06.2024
6	**SSE JE** (Staff Selection Commission Junior Engineers)	https://ssc.nic.in/	18.04.2024	04, 05, 06 - June 2024
7	**NIMCET** (NIT MCA Common Entrance Test)	https://nimcet.admissions.nic.in	20.04.2024	08.06.2024
8	**JIP MAT** (Joint Integrated Program in Management Admission Test)	http://exas.nta.ac.in/JIPMAT	25.04.2024	06.06.2024
9	**CSS-PG Kerala University** PG Programmes in University Departments -Entrance	https://admissions.keralauniversity. ac.in/css2024/	30.04.2024	18.05.2024 - 24.05.2024
10	**Kannur University-** PG Degree programmes and LL.B.Programme at the University Depts/ Centres	https://admission.kannuruniversity. ac.in/	30.04.2024	Will be announced later
11	**CAT-MGU** PG Programmes in University Departments -Entrance	https://cat.mgu.ac.in/	05.05.2024	17.05.2024 & 18.05.2024
12	**IMU CET** (Indian Maritime University)	www.imu.edu.in	05.05.2024	08.06.2024
13	**IISER Aptitude test (IAT)**	www.iiseradmission.in	13.05.2024	09.06.2024
14	**NEST** (National Entrance Screening Test)	www.nestexam.in	31.05.2024	30.06.2024
15	**JEE (Main) 2024 -** Section II Conducted by National Testing Agency (NTA)	https://jeemain.nta.ac.in		04.04.24 to 15.04.24
16	**UPSC Combined Defense Services** Exam (I) 2024 [Including SSC Women (Non-Technical) Course]	https://upsc.gov.in		21.04.2024
17	**UPSC National Defense Academy & Naval Academy** Examination (I)- 2024	https://upsc.gov.in		21.04.2024
18	**Jamia Milia (Non-CUET)**	https://jmi.ac.in/		25.04.2024
19	**NEET 2024**	https://exams.nta.ac.in/NEET		05.05.2024
20	**CUSAT CAT**	https://admissions.cusat.ac.in		2024 May 10,11,12
21	**NCHM JEE**	https://nchmjee.nta.nic.in/		11.05.2024
22	**CUET(PG)-2024 -** Pen-Paper (OMR) Common University Entrance Test	https://pgcuet.samarth.ac.in/		15.05.24 to 31.05.024
23	**UPSC Civil Services Exam 2024** Prelims	https://upsc.gov.in		26.05.2024
24	**Indian Forest Service** (Preliminary) Examination 2024	https://upsc.gov.in		26.05.2024
25	**SSC JE** (Staff Selection Commission Junior Engineers)	https://ssc.nic.in/		04.06.2024 to 06.06.2024
26	**UPSC Engineering Service** Examinations 2024	https://upsc.gov.in		Main- 23.06.2024

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

Days in April

Apr 01

Utkal Diwas or Odisha Foundation Day
(The state of Odisha got its own identity as a separate state in the year 1936, after disassociating itself from Bihar and Bengal.)

April Fools' Day
(In 1592, the Gregorian calendar was introduced to replace the Julian calendar, changing the first day of the new year from April 1 to January 1)

Apr 02

World Autism Awareness Day
(In 2007, created by the United Nations General Assembly, World Autism Awareness Day lands on April 2 every year)

Apr 04

International Day for Mine Awareness
(It was first observed on 4 April 2006. This year's theme is "Protecting Lives. Building Peace".)

Apr 05

National Maritime Day
(India became a member of the International Maritime Organisation (IMO) in 1959 and The legacy of Indian shipping first started on April 5th, 1919, when the first ship The SS Loyalty manufactured by The Scindia Steam Navigation Company Ltd. sailed from Mumbai to the UK.)

Apr 07

World Health Day
(In 1948, the WHO held the First World Health Assembly.)

Apr 10

World Homeopathy Day
(Dr. Christian Samuel Hahnemann father and founder of homeopathy was born on 10th April in 1755)

National Siblings Day
(National Siblings Day was first created in 1995 by Claudia Evart after losing her brother and sister at a very young age)

Apr 11

National Safe Motherhood Day
(Kasturba Gandhi's birthday was designated as National Safe Motherhood Day by the Indian Government in 2003 proposed by WRAI- White Ribbon Alliance)

National Pet Day
(This Day was developed by Colleen Paige, an animal lover, and a reformer in 2006.)

Apr 13

Jallianwala Bagh Massacre
(Jallianwalla also called as Massacre of Amritsar incident on April 13, 1919.)

Apr 14

Dr. Ambedkar Jayanti
Bhimrao Ramji Ambedkar was an Indian jurist, economist, social reformer and political leader who headed the committee drafting the Constitution of India and he was born on 14 April 1891.)

Apr 17

World Hemophilia Day
(It commemorate in honor of World Federation of Hemophilia founder Frank Schnabel's birthday.)

Apr 18

World Heritage Day
(The International Council on Monuments and Sites 1982 suggested that April 18 should be celebrated as World Heritage Day. The theme for 2024 is "Discover and experience diversity".)

Apr 21

National Civil Service Day
(In 1947 on 21st April Sardar Vallabh Bhai Patel, Home Minister of independent India addressed the Probationary Officers at the all-Indian Administrative Service Training School at Metcalfe House in New Delhi)

Apr 22

Earth Day
(Earth Day was first celebrated in 1969 when a US senator named Gaylord Nelson witnessed the effects of a massive oil spill in Santa Barbara, CA The Earth Day 2024 theme is "Planet vs. Plastics".)

Apr 23

World Book and Copyright Day
(The day is celebrated by United Nations, Educational, Scientific, and Cultural Organizations, and other related organizations across the world to honor authors, and books, and to promote the art of reading)

English Language Day
(The Day is celebrated to respect and to celebrate the life and work of English poet and writer William Shakespeare. He was born on 23rd April 1564 and died on 23rd April 1616.)

Apr 24

National Panchayati Raj Day
(The constitution of the 73rd Amendment Act of 1992 that came into force with effect on April 24, 1993, has vested constitutional status on Panchayati Raj Institutions.)

Apr 25

World Malaria Day
(World Malaria Day which was first held in 2008 developed from Africa Malaria Day an event that had been observed since 2001 by African governments. Theme of this year is "Time to deliver zero malaria: invest, innovate, implement".)

Apr 26

World Intellectual Property Day
(It launched in the year 2000 by the World Intellectual Property Organization to promote and protect creative ideas, including music, art, trademarks, writings, and inventions.)

Apr 28

World Day for Safety and Health at Work
(In 2003 the International Labour Organization began to observe the stress of the prevention of accidents and disease at work.)

Apr 29

International Dance Day
(The French Ballet master and a great reformer of dance Jean-Georges Novrre were born in 1727. So the day is observed as International Dance Day or World Dance Day. The day was first introduced in 1982 by the International Dance Committee of the United Nations Educational, Scientific, and Cultural Organization.)

Apr 30

Ayushman Bharat Diwas
(The Ayushman Bharat Diwas revolves around the Ayushman Bharat Yojna which was launched by the Prime minister of India Narendra Modi in 2018)

World Veterinary Day
(Professor John Gamgee from the Veterinary College of Edinburgh first established the World Veterinary Congress in 1863)

General Awareness

1	What is 'Juice Jacking', recently seen in the news? **Cyber attack** (Juice jacking is a cyber attack where hackers inject malware into public USB charging stations, compromising electronic devices while charging mobile phones in public ports)
2	Which northeastern state recently adopted a resolution against the centre's decision to fence the India-Myanmar border & scrap the FMR agreement with Myanmar? **Mizoram** (FMR -Free Movement Regime)
3	Recently, Jal Shakti Ministry has signed an agreement with 12 technical education institutions for basin management of how many rivers? **6** (to collaborate on academic and research initiatives for basin management of six rivers: Narmada, Godavari, Mahanadi, Krishna, Cauvery, and Periyar, as part of the National River Conservation Plan.)
4	Melanochlamys Droupadi, belongs to which one of the following species? **Sea slug** (Researchers from the Zoological Survey of India (ZSI) have identified a new species of head-shield sea slug, Melanochlamys Droupadi, along the coasts of Odisha and West Bengal.)
5	Exercise Samudra Laksamana is conducted between which two countries? **India & Malaysia** (A joint naval drill between the Indian Navy and Royal Malaysian Navy, commenced on February 28 and concluded on March 2 off the coast of Visakhapatnam)
6	Poshan Utsav, recently seen in the news, is organized by which ministry? **Ministry of Women and Child Development**
7	Rupa Tarakas (Silver Filigree), which has recently received a Geographical Indication (GI) tag, belongs to which state? **Odisha** (Filigree, linked to exquisite craftsmanship in classical jewelry, dates back to 3500 BCE in Mesopotamia and it introduced on to Cuttack from Persia through Indonesia around 500 years ago via trade.)
8	First-ever Made-in-India ASTDS tug 'Ocean Grace', is recently built by which manufacturer company under MoPSW promoting Atmanirbhar Bharat? **Cochin Shipyard**
9	What is Dolutegravir (DTG)? **Antiretroviral drug to treat HIV/AIDS** (DTG, endorsed by WHO since 2018, is a preferred HIV treatment due to its effectiveness and minimal side effects.)
10	Which Indian writer was awarded with the 'Erasmus Prize' 2024 for highlighting the climate change crisis? **Amitav Ghosh** (Awarded by the Premium Erasmianum Foundation of the Netherlands.)
11	Recently, which airport was given the title of 'Best Airport' in the Asia-Pacific region? **Indira Gandhi International Airport**
12	Recently, who has been appointed as the chairman of the NCSC (National Commission for Scheduled Castes)? **Kishor Makwana**
13	Who has achieved the title of the billionaire capital of Asia, according to recently released Hurun Research Institute Report? **Mumbai**
14	Where was the 54th session of the Codex Committee on Food Hygiene (CCFH) held? **Nairobi, Kenya** (took place from March 11–15, 2024)
15	Who has been appointed as the Director General of National Investigation Agency (NIA)? **Sadanand Vasant Date**

VG Activities

Career Talk Conducted at
Sree Narayana Industrial Training
Institute Okkal

Career Talk Conducted at
Social Welfare ITC Aluva

PSC Coaching Class
Closing Ceremony
& Study Material
Distribution

Congratulations to Ms **Anjana Vinoj,** who got PSC advice as
Women Civil Police Officer
(Attended PSC Coaching class conducted by Bureau)

Our Services

- ➤ Career Guidance
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"It does not matter how slowly you go as long as you do not stop"

Confucius

Born 551, Qufu, state of Lu [now in Shandong province, China]—died 479 BCE, Lu) China's most famous teacher, philosopher, and political theorist, whose ideas have profoundly influenced the civilizations of China and other East Asian countries.