Eco Club, OP Jindal University, Raigarh
Clean India · Green India

O.P. JINDAL UNIVERSITY ESTD. 2014

OPJU

NAAC A GRADE
Accredited University

ENVIRONMENTAL SUSTAINABILITY REPORT

Aligned with UI Green Metric World University Rankings 2024

2025

About O.P. Jindal University

O.P. Jindal University (OPJU), Raigarh, established by the Jindal Education and Welfare Society, stands as a premier multidisciplinary institution in Chhattisgarh. Guided by the vision of nation-building through world-class education, OPJU integrates academic excellence, industrial relevance, and societal responsibility.

The university comprises the Schools of Engineering, Management, and Science, and actively collaborates with industry partners such as Jindal Steel and Power Ltd. (JSPL) for applied research and innovation.

Through its green campus, research initiatives, and student-driven sustainability projects, OPJU continues to strengthen its position as an eco-conscious university committed to the Sustainable Development Goals (SDGs).

Introduction to
The Sustainable Development Report

Sustainability today is not just an aspiration but a necessity — an integrated vision for ensuring that economic progress, environmental responsibility, and social equity move forward together. The world stands at a defining moment where education and innovation must lead the transformation toward a more sustainable and resilient planet. Universities play a critical role in shaping this transition by generating knowledge, fostering responsible leadership, and embedding sustainability into everyday practices.

O.P. Jindal University (OPJU), Raigarh, established by the Jindal Education and Welfare Society, embodies this responsibility with a deep-rooted commitment to creating a greener, more equitable future. Founded on the principles of innovation, inclusivity, and industrial relevance, OPJU integrates sustainability into its curriculum, campus operations, and community engagement. Situated amidst the industrial heartland of Chhattisgarh, the university serves as a model for balancing academic excellence with environmental consciousness.

The University's journey toward sustainable development is guided by the vision of "Transforming lives and serving society through education, innovation, and sustainable practices." Through its Schools of Engineering, Management, and Science, OPJU has established a multidisciplinary framework that combines scientific research, technology, and social responsibility to address real-world challenges. The University's partnership with Jindal Steel and Power Ltd. (JSPL) enables the application of innovative green technologies and sustainable industrial practices, bridging academia and industry in impactful ways.

At OPJU, sustainability is woven into every aspect of university life. The green campus initiative promotes renewable energy, waste minimization, biodiversity protection, and water conservation. The University has installed solar energy systems, implemented rainwater harvesting, and developed waste management strategies that reflect its long-term commitment to environmental protection. Simultaneously, the University empowers its students through eco-clubs, community outreach programs, and research projects that focus on circular economy, clean energy, and sustainable construction materials.

The University's alignment with the United Nations Sustainable Development Goals (SDGs) provides a clear framework for evaluating and amplifying its impact. From eradicating poverty and promoting gender equality to ensuring clean water, renewable energy, and climate action, each initiative at OPJU contributes to building a more sustainable world. The Environmental Sustainability Report 2025 is a testament to these ongoing efforts — a reflection of progress, innovation, and collaboration toward achieving the global 2030 Agenda.

In embracing the SDGs, OPJU reaffirms its belief that education is the most powerful driver of sustainable development. By integrating academic excellence with environmental awareness and social engagement, the University continues to inspire a generation of leaders who are not only career-ready but also planet-conscious.

Vice Chancellor's Message

Dr. R. D. Patidar
Vice Chancellor,
O. P. Jindal University, Raigarh

At O.P. Jindal University, sustainability is not a destination but a continuous journey of innovation, responsibility, and transformation. As an institution deeply rooted in the industrial heartland of India, we recognize our unique role in shaping a generation of engineers, scientists, and professionals who can build a sustainable and technologically advanced future.

The concept of sustainability is inherently interdisciplinary—it merges science, engineering, management, and human values. Our approach at OPJU aligns with this vision by fostering innovation that minimizes environmental impact while enhancing social and economic well-being. Through our curriculum, research, and operational practices, we aim to develop leaders who not only understand technological advancement but also its ethical and environmental implications.

In the past year, OPJU has taken decisive steps toward achieving the United Nations Sustainable Development Goals (SDGs). We have integrated sustainability into every dimension of university life—from renewable energy generation and green infrastructure to responsible waste management and inclusive education. Our students and faculty are actively engaged in research that explores solutions for clean energy, smart materials, waste-to-resource technologies, and circular economy models.

As an Electrical Engineer, I have always believed that the true power of technology lies in its ability to transform lives responsibly. The evolution of renewable energy systems, smart grids, and energy-efficient technologies offers unprecedented opportunities for a sustainable future. At OPJU, we are leveraging these opportunities by turning our campus into a living laboratory of sustainability—where ideas evolve into innovations and innovations become impactful solutions.

This Environmental Sustainability Report 2025 encapsulates our progress, our partnerships, and our purpose. It reflects not only our achievements but also our resolve to continually improve and contribute meaningfully to national and global sustainability agendas. I am proud of our students, faculty, and staff who have embraced this mission with enthusiasm and commitment.

As we move forward, OPJU will continue to empower young minds to think critically, act responsibly, and innovate sustainably. Together, we will shape a future where education, technology, and humanity converge to create a cleaner, greener, and more equitable world.

Commitment Towards Sustainability – O.P. Jindal University

Sustainability at O.P. Jindal University (OPJU) is more than an institutional practice—it is a way of life embedded in every aspect of learning, research, and campus management. Guided by its vision of "Transforming lives and serving society through education and innovation," OPJU continually strives to create a balance between academic excellence and environmental responsibility. The University believes that sustainable progress requires a deep integration of technology, awareness, and action—a philosophy that drives all its environmental initiatives and infrastructural developments.

Situated in the heart of Raigarh, OPJU has emerged as a benchmark for green campus initiatives in the region. Its holistic sustainability framework integrates waste management, renewable energy, water conservation, and biodiversity enhancement, making the campus an ecosystem of learning and living in harmony with nature. The University operates an efficient Solid Waste Management System, ensuring that all biodegradable and non-biodegradable waste is segregated and treated responsibly. Organic waste generated from hostels, canteens, and gardens is converted into compost through in-house composting units, which are used as natural fertilizers for the lush green landscapes within the campus. The University has also established a biogas plant that converts organic waste into clean energy, reducing dependency on conventional fuels and contributing to carbon neutrality.

OPJU maintains a robust system for the safe disposal of hazardous materials. Dedicated chemical and medical waste pits ensure that laboratory and biomedical waste are treated and disposed of in accordance with environmental safety standards, preventing soil and water contamination. This commitment to environmental compliance reflects the University's proactive approach to maintaining a safe and sustainable campus environment.

Water conservation is another cornerstone of OPJU's sustainability vision. The University has implemented rainwater harvesting systems and recharge pits strategically across the campus to collect, store, and replenish groundwater. These systems not only help reduce surface runoff but also contribute significantly to water self-sufficiency, especially during dry seasons. Treated water from the Sewage Treatment Plant (STP) is reused for irrigation and gardening, embodying the University's circular approach to water resource management.

Sustainability at OPJU extends beyond infrastructure—it is an academic and social commitment. The University integrates sustainability principles into its curriculum, research, and student-led projects, promoting awareness and practical engagement. Students and faculty work collaboratively on projects related to renewable energy, waste-to-resource technologies, sustainable materials, and energy-efficient systems. Eco Clubs, NSS volunteers, and the Green Audit Committee regularly organize drives, awareness campaigns, and plantation programs that strengthen environmental consciousness across the campus community.

Through its partnerships with Jindal Steel and Power Ltd. (JSPL) and other organizations, OPJU leverages industrial expertise to promote sustainable technologies and practices, aligning academic innovation with real-world solutions. The University's sustainability journey continues to evolve—each year marked by measurable progress toward energy efficiency, waste minimization, and resource optimization.

The Environmental Sustainability Report 2025 reflects OPJU's unwavering resolve to lead by example and contribute meaningfully to the global sustainability movement. Every initiative—from rainwater harvesting and biogas generation to waste segregation and green infrastructure—demonstrates the University's belief that education and sustainability must move hand in hand. OPJU remains steadfast in its mission to nurture environmentally conscious leaders, advance sustainable technologies, and build a future where development and ecological preservation coexist in balance.

VISION

To be a role model among higher education institutions globally, aims to empower young minds to drive sustainable societal transformation through excellence in value-based education, research, innovation, and entrepreneurship.

MISSION

Develop Industry-Ready Talent: Create programs aligned with new-age technologies to build a skilled workforce that drives societal growth.

Enhance Employability: Implement outcome-based education using emerging technologies and experiential learning,equipping students to solve real-world problems and improve their employability.

Cultivate Global Collaborations: Foster local and global partnerships to enrich teaching, research, and institution building.

Promote Holistic Leadership: Incorporate liberal education to nurture well-rounded, globally competent leaders capable of multifaceted responsibilities.

Encourage Innovation and Entrepreneurship: Establish an industry-focused environment that supports innovation and entrepreneurship, contributing to sustainable development.

Core Values

Student-Centric Success: Measure success through student outcomes

Academic Freedom and Trust: Foster an environment of academic freedom and trust

Ethical Integrity: Maintain the highest standards of ethics and integrity in all operations

Social Responsibility: Develop sustainable practices and concern for the environment & Society

Inclusive Accessibility and Compassion: Remain accessible to all facets of society without consideration of economic

Governance Structure for Sustainability

Position	Name	Role/Responsibility
Chairman	Dr. R.D. Patidar	Leadership & Vision
Mentor	Dr. Sanjay Singh	Policy Guidance
Director (Env. & Sustainability)	Dr. M. Nithya	Strategic Planning
Additional Director	Dr. Mahasakti Mahamaya	Green Campus Coordination
Convener (Green Protocol)	Dr. Kalyan M. Phani	Implementation Oversight
Co-Conveners	Dr. Anurag Sharma, Dr. Taniya S. Rathore	Initiative Execution
Coordinators	Dr Deepak Patel Dr Dharmedra singh Saini Prof. Namrata Ojha Dr Saurav Gupta Dr Ashish sahu Dr Pradeep Kumar Shriwas Mr Shasikant Dr Debasmita Samal	Student and Faculty Engagement

Environmental Audits and Certifications

OPJU conducts periodic Green, Energy (Renewable), and Environment Audits to assess its sustainability performance and ensure efficient resource utilization. These audits validate the university's commitment to environmental compliance, carbon reduction, and energy efficiency. The certified audit reports reflect OPJU's dedication to maintaining an eco-friendly and responsible campus environment.

GV/RN/EA/08-25/97

(Renewal) Energy Audit Certificate (As per Green Building Parameters)

The study is conducted as per Indian and International Green Building Standards initiated in the capacity of an Accredited & Certified Green Building Professional

It is awarded for Academic session starting June 2024- May 2025 to the Esteemed Institution

(Analysed for the period of one academic year session)

O.P. Jindal University

Punjipathra, Raigarh, (C.G.), PIN:496109

As part of the Institution's initiatives for a Healthy & Sustainable Institute the audit was conducted.
We appreciate the immense efforts taken by Staff and students towards the Energy Management and Conservation.

Analysed for June 2024 - May 25 academic session; issued on **10 August 2025** and to be renewed by 31 July 2026

Ar. Nahida Abdulla Shaikh
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Greenvio

SUSTAINABLE DEVELOPMENT

1 NO POVERTY
No Poverty
End poverty in alits forms everywhere.

2 ZERO HUNGER
Zero Hunger
End hunger, achieve food security, improve nutrition, and promote.

3 GOOD HEALTH
Good Health and Well-being
Ensure healthy lives and promote well-being for all at all ages

4 GUALITY EDUCATION
Gender Equality
Achieve gender equality and empower all women and girls.

5 CLEAN WATER
Clean Water and Sanitation
Ensure availability and sustainable management of waterand sanitation for

7 AFEORDABLE
Affordable and Clean Energy
Ensure access to affordable, reliable, sustainable, and modern energy for all

8 DECENT
Decent Work and Economic Growth
Promote sustained,inclusive, and sustainable economic growth

9 INDUSTRY INROVDITION
Industry, Innovation, and Infrastructure
Build resilient infrastructure, promote inclusive and sustainablezalization,

10 REDUCED INEQUATTIED
Reduced Inequalitles
Reduce inequality within and among countries

11 CIICEAMABLE CITICS.AND
Sustainable Cifies and Communities
Make cities and heman settlements inclusive, safe, resillent at sustainable

12 CUMATE ACTION
Climate Action
Take urgent action to combat climate change and its impacts

14 LIEE BELOW
Life Below Water
Conserve and sustainably use the oceans, seas, and manne resources,

16 IEAGI
Peace, Justice and Strong Institutions
Promote peaceful and inclusive societies for sustainable development.

17
Partnerships for the Goals
Strengthen the means of implementationard revitalizeglobla development

Environmental Audits and Certifications

Key Area	Description of Contribution	Aligned SDGs
Curriculum Integration	Sustainability concepts are integrated across disciplines such as Engineering, Management, and Sciences. Courses emphasize renewable energy, waste management, sustainable infrastructure, and social equity, preparing graduates as environmentally conscious leaders.	SDG 4: Quality Education SDG 9: Industry, Innovation & Infrastructure SDG 13: Climate Action
Research & Innovation	Faculty and students conduct research in renewable energy, climate resilience, waste-to-resource technologies, circular economy models, and green materials. Collaborative projects with industries and research bodies promote sustainable technologies and clean production systems.	SDG 7: Affordable & Clean Energy SDG 12: Responsible Consumption & Production SDG 17: Partnerships for the Goals
Campus Sustainability	The OPJU campus serves as a living laboratory for sustainability. Initiatives include solar power generation, biogas plants, composting units, rainwater harvesting, groundwater recharge pits, sewage treatment, and extensive green landscaping.	SDG 6: Clean Water & Sanitation SDG 7: Affordable & Clean Energy SDG 11: Sustainable Cities & Communities
Community Engagement	Through outreach programs, OPJU collaborates with nearby communities on clean energy adoption, environmental awareness, waste management, and livelihood enhancement. These initiatives foster inclusivity and promote local sustainability.	SDG 1: No Poverty SDG 8: Decent Work & Economic Growth SDG 11: Sustainable Cities & Communities
Student Engagement & Activism	Students play a central role through Eco Clubs, NSS activities, and campus drives promoting plastic reduction, afforestation, and energy conservation. They lead innovation challenges and awareness campaigns supporting sustainable practices.	SDG 4: Quality Education SDG 13: Climate Action SDG 15: Life on Land
Partnerships & Collaborations	OPJU partners with industries, government agencies, and NGOs - including Jindal Steel & Power Ltd. — to develop clean technologies, enhance environmental performance, and support sustainable industrial development.	SDG 4: Quality Education SDG 13: Climate Action SDG 15: Life on Land
Policy Influence	The University contributes expertise and research insights to support environmental and industrial policy discussions at local and regional levels, encouraging evidence-based decision-making.	SDG 16: Peace, Justice & Strong Institutions SDG 17: Partnerships for the Goals
Policy Influence	The University contributes expertise and research insights to support environmental and industrial policy discussions at local and regional levels, encouraging evidence-based decision-making.	SDG 16: Peace, Justice & Strong Institutions SDG 17: Partnerships for the Goals
Capacity Building	OPJU equips students, researchers, and professionals with sustainability skills through workshops, conferences, and hands-on learning experiences, fostering leaders prepared to drive sustainable growth.	SDG 4: Quality Education SDG 8: Decent Work & Economic Growth
Ethical Investments	The University promotes responsible use of resources and emphasizes sustainable procurement and governance practices that reflect environmental and social responsibility.	SDG 12: Responsible Consumption & Production SDG 17: Partnerships for the Goals

1 No Poverty

The University is dedicated to eliminating poverty by promoting inclusive education, equitable access, and sustainable livelihoods. Through targeted scholarships, financial support, and social outreach, it ensures that students from economically weaker sections can pursue higher education without financial barriers.

- **Merit-cum-Means Scholarships** – Financial aid is offered to bright and deserving students from economically weaker backgrounds, ensuring equal access to quality education.
- **OP Jindal Jewel Special Scholarships** – Fifty students each year receive scholarships of ₹ 40,000 to support their academic journey and reduce the burden of tuition fees.
- **Yashasvi Scheme** – A flagship initiative supported by the Jindal Foundation, providing up to 100% tuition-fee support to underprivileged female students from Chhattisgarh, Odisha, and Jharkhand.More than 150 female students currently benefit from this scheme, which promotes women's education and economic empowerment.
- **OPJEMS Scholarship** – A prestigious scholarship for top-performing engineering and management students.It provides ₹ 80,000 to engineering and ₹ 1,50,000 to management students, recognising academic excellence and leadership potential across disciplines.
- **Entry-Level Scholarships and Fee Concessions** – Multiple schemes help reduce educational costs and encourage enrolment from diverse economic backgrounds.
- **Equal Opportunity and SC/ST Cells** – Institutional mechanisms that safeguard inclusivity, equity, and access to opportunities for all sections of society.
- **Inclusive Admission Policy** – Admission procedures highlight equal access for candidates from economically weaker sections, aligning with SDG 1
- **Career Development Cell (CDC) and Placement Support** – Training programmes, internships, and placement drives enhance employability, helping graduates secure sustainable livelihoods and uplift family income.
- **Student Resilience Building** – Continuous financial assistance and mentoring help prevent dropouts caused by economic hardship, fostering long-term educational continuity and empowerment.
- **Community Outreach through NSS** –Under the National Service Scheme, students conduct over 160 community programmes each year in five adopted villages around the campus. These initiatives promote health awareness, literacy, sanitation, environmental care, and rural empowerment, demonstrating strong social responsibility.
- **Transparency and Awareness** – All scholarship and financial-aid information is publicly shared through the University's communication channels, reflecting accountability and a clear commitment to poverty reduction through education and skill development.

Glimpses

Scholarship Distribution Ceremony

CDC activity

NSS Activities

Through these combined efforts, the University contributes meaningfully to the reduction of poverty by breaking economic barriers to education, empowering youth with employable skills, and improving quality of life in surrounding communities. The initiatives collectively strengthen resilience, social inclusion, and access to opportunities in alignment with the goals of SDG 1.

2 Zero Hunger

The university ensures that all students and staff have access to hygienic, affordable and nutritionally balanced meals, while progressively embedding food-security and waste-management practices into its sustainability strategy.

- **Nutritious Campus Dining:** – Provides hygienic, affordable, and balanced meals in hostels and canteens, ensuring food security and proper nutrition for all students and staff.
- **Healthy Food Practices** – Offers varied menus and fresh ingredients to promote well-balanced diets that support the health and well-being of the campus community.
- **Zero Food Waste Management** – Implements responsible food-management systems and awareness among students to minimize food wastage across dining areas.
- **Waste-to-Energy Conversion** – Utilizes organic waste from canteens in the biogas plant and composting units, producing clean energy and organic manure for campus use.
- **Community Food Support** – Through Eco Club and NSS volunteers, conducts food-donation drives for underprivileged families in nearby villages.
- **Awareness and Outreach** – Organizes campaigns on nutrition, sustainable eating habits, and food-waste reduction within the campus and surrounding communities.
- **Sustainability Research & Innovation** – Encourages student research and projects focused on sustainable agriculture, waste-to-resource technologies, and food-loss reduction.
- **Integration into Sustainability Framework** – Embeds food security and responsible consumption into the University's broader sustainability policy, reinforcing its commitment to a hunger-free and waste-free campus.


Biogas Plat

Food Donation- NSS activity

University adopted Villages


Girl's hostel dinning area


Vending machine


Cafeteria

3 Good Health and Well-Being

The University is dedicated to eliminating poverty by promoting inclusive education, equitable access, and sustainable livelihoods. Through targeted scholarships, financial support, and social outreach, it ensures that students from economically weaker sections can pursue higher education without financial barriers.

- **On-Campus Medical & Physiotherapy Care:** A dedicated Health Centre and Physiotherapy facility provide medical support to students, staff and campus workers.
- **Residential Health Facility:** A well-maintained six-bed health centre with a resident doctor offers essential health services directly on campus.
- **Comprehensive Fitness Infrastructure:** Gymnasium, open-gym, sports grounds (football, cricket, volleyball) and indoor courts (badminton, table tennis) foster active lifestyles and physical well-being.
- **Hygienic Hostel & Dining Environment:** Secure, comfortable hostels and hygienic dining/mess facilities contribute to overall health and well-being of students living on campus.
- **Holistic Student Welfare Services:** Campus infrastructure includes ambulance services, medical/health services and recreation facilities, reflecting a living environment integrating academic, physical, social and health dimensions.
- **Physical, Mental & Emotional Health Emphasis:** Programs are designed to support not only physical health, but also mental and emotional well-being for all campus community members.
- **Preventive Health & Vaccination Drives:** Regular health check-ups and vaccination campaigns, often in collaboration with external hospitals, support preventive healthcare.
- **Mind-Body Wellness Activities:** Weekly yoga, meditation and fitness sessions promote a balanced lifestyle among students and staff.
- **Community Health Awareness:** Blood-donation drives, anti-tobacco campaigns, mental-health awareness programs and Women's Health & Hygiene initiatives encourage a culture of well-being.
- **Clean & Hygienic Environment:** Strict monitoring of food services and sanitation, along with clean-campus and waste-management initiatives, sustains a healthy campus atmosphere.
- **Counselling & Mentoring Support:** Stress-management, emotional-wellness, and mentorship frameworks ensure students can seek help with challenges and build resilience.
- **Inclusive Wellness Services:** Equal access to health-resources, menstrual-hygiene programmes for women students and workers, and inclusive welfare practices ensure no one is left behind.

Glimpses


Healthcare Center

University Ambulance


Medical aid post


open-gym

Sanitary pad vending machine


Sanitary pad disposal system


Chess & Carrom Championship 2025


Gymnasium

Promoting Technological Learning through Expert Sessions

Blood Donation Camp on World AIDS Day – Promoting Health and Humanity


Cultural Event

Red Ribbon Club Initiative on Women's Health and Hygiene at OPJU

Red Ribbon Club Initiative on Women's Health and Hygiene at OPJU


Basketball Court


sports ground


Zumba Sessions


Pot Making Session


Self-Defense Training

By offering comprehensive health services, fostering active lifestyles, promoting preventive care, and extending wellness support across the campus community, the institution aligns strongly with SDG 3. The focus on holistic well-being—from physical fitness and nutrition to mental health and inclusive access—ensures that the campus supports the flourishing of all its members.

4 Quality Education

❖ **Inclusive and Multidisciplinary Education:**

❖ ➤ Offers a wide range of undergraduate, postgraduate, and doctoral programmes in engineering, science, management, and humanities, ensuring broad access to quality higher education.

❖ ➤ Follows transparent admissions and multiple learning pathways, encouraging lifelong learning and inclusivity across all levels of study.

❖ **Academic Quality Assurance:**

➤ The Internal Quality Assurance Cell (IQAC) ensures academic excellence through continuous monitoring, innovation in pedagogy, and regular quality audits.

➤ Academic processes are aligned with global standards through NAAC, NBA, and ISO 9001:2015 accreditation initiatives..

❖ **Research, Innovation & Idea Lab Ecosystem:**

➤ The Innovation Centre and Idea Lab serve as creative spaces that nurture design thinking, problem-solving, and entrepreneurial skills among students.

➤ These centres encourage project-based learning, prototype development, and interdisciplinary research aligned with real-world challenges and sustainable technologies.

➤ Regular hackathons, start-up challenges, and incubation programs promote creativity and practical innovation culture within the campus.

❖ **Learning Infrastructure and Digital Transformation**

➤ Equipped with modern classrooms, high-end laboratories, simulation tools, and smart digital infrastructure, the university ensures experiential and technology-enabled learning.

➤ The Central Library and Learning Resource Centre provides extensive access to physical and digital resources, e-journals, and databases that support research and self-paced learning.

➤ Digital classrooms enhance interactivity, accessibility, and innovation in teaching-learning practices.

❖ **Faculty Excellence and Professional Growth**

➤ Faculty members actively upgrade their skills through Faculty Development Programmes (FDPs), NPTEL courses, workshops, and industrial training.

➤ Continuous exposure to new teaching methodologies ensures delivery of outcome-based, learner-centric education.

❖ **Outcome-Based and Industry-Aligned Curriculum:**

➤ Implements Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) for flexibility, innovation, and employability enhancement.

➤ Regular Board of Studies (BoS) meetings with industry and academic experts ensure curriculum alignment with current technologies and market demands.

➤ Emphasizes project-based learning, internships, and industrial training to strengthen practical knowledge and career readiness.

❖ Student Support, Mentoring & Employability

➤ Robust mentoring, academic counselling, and placement frameworks bridge education with professional growth.

➤ Regular Career Counselling Programs guide students in exploring career options, higher education opportunities, and entrepreneurship pathways.

➤ Scholarships and financial-aid schemes ensure equitable access for students from diverse socio-economic backgrounds, especially women learners.

❖ Global Collaboration and Knowledge Exchange

➤ Multiple MoUs with reputed national and international universities enable joint research, faculty exchange, internships, and global learning experiences.

➤ Regular Parents–Teacher Meetings (PTMs) foster transparent communication and collective responsibility for student development.

❖ Innovation, Research & Sustainability Integration

➤ The Research and Development Cell (RDC) promotes interdisciplinary research, funded projects, and patents across domains.

➤ The Centre of Excellence in Environment & Sustainability integrates learning and research aligned with UN SDGs.

➤ Student projects emphasize green technologies, sustainable materials, and waste-to-resource innovation.

IQAC Meeting

RDC - Student seed money presentation

Alumni Talk conducted by mechanical Department

Webinar on Research Writing and Patent Filing

Faculty Development Program conducted by Civil Engineering Department

OPJU Students Qualify GATE 2025

Innovation Center

Central Library – Hub of Knowledge and Learning

Career Counselling session

MoU signed between OPJU and NIT Raipur

NPTEL qualified students

Parents-Teacher Meeting – Strengthening Academic Collaboration

Industrial Training for Faculty – Bridging Academia and Industry

Through quality teaching, innovation ecosystems, global collaborations, and inclusive learning policies, the university cultivates intellectual growth, research excellence, and lifelong learning. These initiatives directly advance SDG 4 – Quality Education, preparing students as socially responsible and globally competent professionals.

5 Gender Equality

The university promotes gender equality through inclusive policies, safe campus infrastructure, dedicated welfare mechanisms, and educational initiatives that empower women to learn, lead, and succeed in every field.

- **Governance for Inclusion** - The Equal Opportunity Cell, SC/ST Cell, and Internal Complaints Committee (ICC) safeguard gender justice, ensure inclusivity, and maintain a respectful work and learning environment for all.
- **Safe & Supportive Campus for Women -** Separate hostels, round-the-clock security, grievance redressal systems, and health-and-hygiene facilities—including sanitary-pad distribution and awareness drives—ensure a secure, healthy, and inclusive environment.
- **Financial Support for Women's Education** - Gymnasium, open-gym, sports grounds (football, cricket, volleyball) and indoor courts (badminton, table tennis) foster active lifestyles and physical well-being.
- **Yashasvi Scheme – Empowering Women Through Education -** Supported by the Jindal Foundation, the scheme provides up to 100 % tuition-fee support to female students from Chhattisgarh, Odisha, and Jharkhand. Over 150 women students are currently enrolled under this initiative, which directly promotes women's access to higher education and technical careers.
- **Project Panchhi – Corporate Partnership for Women's Empowerment -** A recruitment and education initiative by Vedanta Group, Project Panchhi selects 1,000 girls from economically disadvantaged communities across India.Participants receive financial support for their higher education and are offered promising job opportunities within Vedanta upon graduation.
- **Women in STEM & Innovation -** The university encourages women's participation in engineering, research, innovation challenges, and start-up ecosystems through the Innovation Centre and Idea Lab, fostering confidence and representation in STEM disciplines.
- **Community Outreach for Women's Upliftment-** The university encourages women's participation in engineering, research, innovation challenges, and start-up ecosystems through the Innovation Centre and Idea Lab, fostering confidence and representation in STEM disciplines.

❖ **Co-Educational Environment** - The university provides a coeducational setting that fosters inclusivity, respect, and equal learning opportunities for all genders. This environment promotes collaboration, leadership, and mutual understanding, contributing to gender equality both on campus and in the wider community.

Achievement in Women Welder Fraternity Competition 2025

Yashvi Scheme Creative

Girl's Participated in sports

Electric Bike team Tarangani
(girls team)

Girl's Award

Co-Educational Environment

Students Industrial Visit

Health & Hygiene Session

ICC Webinar

Class Room

Through inclusive policies, scholarships, and collaborative initiatives such as the Yashasvi Scheme and Project Panchhi, the university contributes to building a gender-balanced academic ecosystem. These efforts enhance women's access to education, strengthen their employability, and drive social transformation in alignment with SDG 5 – Gender Equality.

6 Clean Water and Sanitation

❖ **Inclusive and Multidisciplinary Education:**

❖ ➤ Offers a wide range of undergraduate, postgraduate, and doctoral programmes in engineering, science, management, and humanities, ensuring broad access to quality higher education.

❖ ➤ Follows transparent admissions and multiple learning pathways, encouraging lifelong learning and inclusivity across all levels of study.

❖ **Academic Quality Assurance:**

➤ The Internal Quality Assurance Cell (IQAC) ensures academic excellence through continuous monitoring, innovation in pedagogy, and regular quality audits.

➤ Academic processes are aligned with global standards through NAAC, NBA, and ISO 9001:2015 accreditation initiatives..

❖ **Research, Innovation & Idea Lab Ecosystem:**

➤ The Innovation Centre and Idea Lab serve as creative spaces that nurture design thinking, problem-solving, and entrepreneurial skills among students.

➤ These centres encourage project-based learning, prototype development, and interdisciplinary research aligned with real-world challenges and sustainable technologies.

➤ Regular hackathons, start-up challenges, and incubation programs promote creativity and practical innovation culture within the campus.

❖ **Learning Infrastructure and Digital Transformation**

➤ Equipped with modern classrooms, high-end laboratories, simulation tools, and smart digital infrastructure, the university ensures experiential and technology-enabled learning.

➤ The Central Library and Learning Resource Centre provides extensive access to physical and digital resources, e-journals, and databases that support research and self-paced learning.

➤ Digital classrooms enhance interactivity, accessibility, and innovation in teaching-learning practices.

❖ **Faculty Excellence and Professional Growth**

➤ Faculty members actively upgrade their skills through Faculty Development Programmes (FDPs), NPTEL courses, workshops, and industrial training.

➤ Continuous exposure to new teaching methodologies ensures delivery of outcome-based, learner-centric education.

❖ **Outcome-Based and Industry-Aligned Curriculum:**

➤ Implements Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) for flexibility, innovation, and employability enhancement.

➤ Regular Board of Studies (BoS) meetings with industry and academic experts ensure curriculum alignment with current technologies and market demands.

➤ Emphasizes project-based learning, internships, and industrial training to strengthen practical knowledge and career readiness.

6 Clean Water and Sanitation

- **Clean Drinking Water Supply -** The campus has a centralized water-purification and distribution system, including RO/UV treatment plants, to ensure safe and potable drinking water across academic blocks, hostels and residential zones.
- **Water Quality Monitoring -** Regular testing of drinking-water and treated water is conducted to ensure compliance with safety and hygiene standards.
- **Water Recycling & Reuse -** Grey water and treated wastewater are reused for irrigation of gardens and green belts, supporting sustainable landscaping and reducing freshwater consumption.
- **Groundwater Recharge:** Bore-wells and rain-water harvesting pits are installed across the campus to promote groundwater recharge and reduce dependence on external water supply.
- **Efficient Water Infrastructure:** Large-capacity storage tanks and integrated pipelines, along with flow meters and leak-detection systems, ensure reliable supply and monitoring of water usage. (Campus water-conservation statement mentions mechanical flow-meters and telemetry system).
- **Hygiene & Sanitation Facilities:** Toilets, bath-rooms and public rest-rooms in hostels and academic blocks are maintained with continuous water-supply and cleanliness protocols, supporting overall hygiene on campus.
- **Awareness & Behavioural Change:** Campaigns on water conservation, sanitation practices, menstrual hygiene and responsible consumption are conducted for students, faculty, staff and campus workers—thus embedding hygiene culture into campus life.
- **Waste-Water Treatment:** Sewage-treatment plants (STPs) or water-recycling units treat wastewater prior to discharge or reuse — reducing environmental impact and supporting SDG-6.
- **Linkage with Sustainability Framework:** The Centre of Excellence in Environment & Sustainability supports the design of new water-conservation models, campus landscaping using treated water, and integrates these initiatives into the institution's sustainability strategy.
- **Campus Clean-Up Campaigns:** The university organises cleanliness drives and water-sanitation awareness weeks, engaging students and local communities in promoting shared responsibility for water and sanitation assets.

Glimpses

Rain Water Harvesting Pit

Under ground water treatment plant

Water treatment Plant

UV Treatment Plant

Borewell Pit

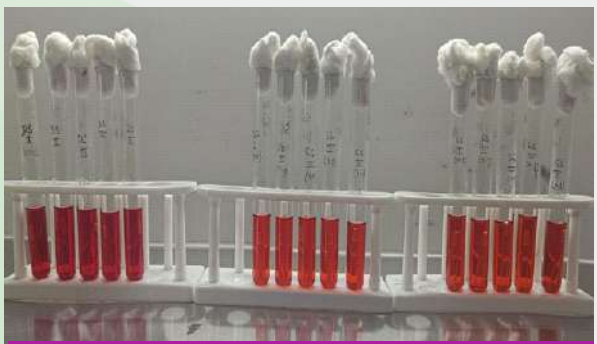
Water Treatment Plant –
Ensuring Clean and Safe Water at OPJU

Admin Block-A

Admin Block-B

HR-1 (Old Boys Hostel)

Reservoirs for water storage



MPN Test for Water Quality Monitoring

Tanks and Bunds – Strengthening Rainwater Harvesting and Groundwater Recharge

Clean Campus, Green Campus –
Swachhata Pakhwada Initiative at OPJU

By combining safe and adequate water-supply systems, effective wastewater reuse, robust sanitation infrastructure and culture-building campaigns, the institution advances the goals of SDG 6—ensuring access to clean water and sanitation, improving public health, reducing water-stress and enhancing sustainability across the campus and its surrounding communities.

7 Affordable & Clean Energy

❖ **Commitment to Renewable Energy**
The university is committed to increasing its share of renewable energy on campus through rooftop solar installations and energy-efficient infrastructure, aligning with its Green Campus mission.

❖ **Student-Led Clean Energy Research**
A dedicated student chapter under the Centre for Innovation & Entrepreneurship promotes research projects in solar PV, biomass, wind and hybrid clean-energy technologies, fostering practical innovation in low-carbon systems.

❖ **Energy-Efficient Infrastructure Upgrades**
Campus lighting, heating and cooling systems are progressively upgraded with LED fixtures, high-efficiency HVAC systems and natural-ventilation designs to lower overall energy demand and improve comfort.

❖ **Energy Audits & Monitoring**
Regular energy audits and monitoring systems track consumption, detect inefficiencies and guide maintenance teams in enhancing performance and reducing waste.

❖ **Awareness & Behavioural Change Programmes**
Workshops and campaigns for students and staff promote clean energy adoption, energy-conservation practices and innovation in low-carbon technology.

❖ **Green Campus Design Features**
Solar-powered street-lights, solar water-heating systems and low-carbon backup power units form part of the campus design, reducing operating costs and carbon emissions.

❖ **Industry Collaboration & Real-World Learning**
The university maintains partnerships with power-sector firms and renewable-energy organisations to support real-world projects on smart grids, energy storage and renewable integration, enhancing experiential learning.

❖ **Research & Innovation in Energy Technologies**
Research initiatives focus on energy-efficient materials, process optimisation and cleaner industrial applications—strengthening the university's role as a driver of sustainable technologies.

❖ **Impact Outcomes**

> Reduced electricity bills and lower energy wastage
> Decreased greenhouse-gas (GHG) emissions
> Enhanced awareness among students and staff about sustainable energy practices
> Strengthened clean-energy research and innovation capacity

Goal of Net-Zero Energy Buildings
The campus aims to achieve net-zero energy consumption for key buildings by aligning infrastructure development with its sustainability roadmap and long-term SDG commitments.

Glimpses



Energy Efficient Appliances Usage: Use of LED lighting and lamps, LED lighting with motion sensor

Energy-efficient AC

Wind Tunnel Setup

Roof and Façade Mounted Solar Panels

Water Heating Installed in Rooftop of Boys Hostel

E-Vehicle charging

2nd International Conference on Electrical, Electronics, and Sustainable Innovations (ICEESI 2026)

E-Bike Challenge 2025

8 Decent Work & Economic Growth at OPJU

- **Industry-Ready Skill Development:** The university fosters employability through curricular, co-curricular and vocational programmes that equip students with productive employment skills.
- **Innovation & Entrepreneurship Ecosystem:** A dedicated Innovation Centre and incubator ecosystem support start-ups and new business ventures, contributing to local and regional economic growth.
- **Strong Industry–Academia Linkages:** Partnerships with organisations in the steel, power and allied sectors provide students real-world exposure and help smooth transition from academics to employment.
- **Inclusive Access to Employment Support:** Training, placements and scholarships are offered to students from diverse socio-economic backgrounds, promoting fairness, equity and inclusion in economic participation.
- **Career Development Centre (CDC):** Internships, skill-based workshops and campus placement drives align student competencies with market needs, enhancing their employability and job readiness.
- **Linking Education to Employment:** Through these initiatives, the university bridges the gap between study and work, helping reduce youth-unemployment and promoting decent work environments in line with SDG 8 targets.
- **Mission for Innovation-Driven Growth:** The institution emphasises innovation, entrepreneurship and sustainable development, empowering graduates to contribute to emerging industries and knowledge-based economy.
- **Job Creation & Regional Value Chains:** Incubation and research activities generate new jobs, strengthen regional value chains and foster inclusive and sustained economic progress.
- **Sustainable Operational Models:** Campus, labs and institutional collaborations are managed with a sustainability mindset to contribute positively to local economic ecosystems.
- **Women's Empowerment & Financial Literacy:** A webinar on “Women's Empowerment in Financial Literacy, Motivation and Education” was organised to promote financial awareness, self-reliance and confidence among women participants—highlighting the university's commitment to gender-inclusive economic empowerment.
- **Work–Life Balance Support:** The Day-Care Centre for children of faculty and staff provides a safe and accessible space, supporting women's workforce participation and reflecting an inclusive, employee-friendly campus infrastructure.

Glimpses

Daycare Facility for Faculty and Staff

Awareness Session on Women's Empowerment and Financial Literacy

9 Industry, Innovation & Infrastructure at OPJU

- **Innovation Centre & Incubation Hub:** The university has established a dedicated Innovation Centre and Start-Up Incubation Hub where students, faculty and industry partners collaborate to develop prototypes, IoT solutions and engineering innovations, addressing real-world problems.
- **Institution's Innovation Council (IIC):** The IIC actively organises hackathons, design challenges and ideation workshops that foster creativity, entrepreneurship and problem-solving skills among students.
- **Modern Research Infrastructure:** The academic and research infrastructure includes state-of-the-art laboratories in materials science, metallurgy, steel-making and geotechnical engineering, aligning with national industrial priorities.
- **Industry–Academia Partnerships:** Strong linkages with the steel, power and manufacturing sectors support joint research, live industry projects and collaborative labs—bridging theory and practice.
- **Smart-Campus & Digital Framework:** The campus integrates digitised classrooms, high-speed connectivity and automation tools. These systems support next-generation manufacturing, AI and materials research.
- **Seed Funding & Start-Up Support:** The ecosystem nurtures start-ups and spin-offs by offering seed funding, mentorship, access to research facilities and peer networks, thereby strengthening the innovation culture. .
- **Sustainable Infrastructure Design:** Facilities and labs are developed with low-carbon building materials, energy-efficient systems and natural-lighting architecture, ensuring long-term environmental and operational resilience.Research Focus on Sustainability: Research initiatives prioritise energy-efficient materials, process optimisation and cleaner industrial applications - reinforcing commitment to responsible innovation.
- **Centre for Innovation & Entrepreneurship (CIE):** CIE enables technology transfer, entrepreneurship training and industrial mentoring—bolstering regional and national innovation capacity.

❖ **Conferences, Workshops & Achievements:** The university hosts substantive events such as the "INNOVATE X 4.0" Hackathon (where student teams won top awards in IoT/green mobility categories), demonstrating hands-on achievement in innovation.

❖ **Impact Outcomes:**

> Enhanced capacity of students and researchers to innovate and develop technology solutions

> Strengthened research-based learning infrastructure and industry collaborations

> New value chains contributing to regional industrial growth, job creation and sustainable economic impact.

Session conducted in association with CIAC

Team Vikrant

Professional Development Initiatives under CCET

Webinar on Geospatial Technologies (RS/GIS) – Advancing Digital Learning in Civil Engineering

Innovation in Action – OPJU Wins 1st Place in IoT Category at INNOVATE X 4.0 Hackathon

Research and Innovation Excellence through Multidisciplinary Patents

10 Reduced Inequalities at OPJU

- **Financial Access & Support for All**
  The university provides scholarships, fee-waivers and financial assistance to students from economically weaker sections, under-represented groups and women, supporting equitable access to higher education.
- **Institutional Inclusion Cells**
  The establishment of an Equal Opportunity Cell (EOC) and SC/ST Cell ensures inclusion, fairness and dedicated support systems for students from marginalised or disadvantaged backgrounds.
- **Safe & Inclusive Residential Facilities**
  Secure, well-equipped hostels with separate accommodation for women, under 24 × 7 campus security and surveillance, enable equitable participation of female students—including in STEM and professional programmes.
- **Merit-cum-Means & Targeted Awards**
  Special scholarship schemes such as the "OPJEMS" provide tuition-support for students from rural and low-income families, reducing financial barriers and promoting social equity.
- **Diversity-Awareness & Sensitisation Programmes**
  Orientation, sensitisation and diversity-awareness programmes for students, faculty and staff foster a campus culture grounded in respect, empathy and inclusion.
- **Representation from Diverse Communities**
  The student body draws from multiple states, cultural and linguistic backgrounds, castes and socio-economic groups—reflecting the institution's commitment to national integration, diversity and equal representation.
- **Academic Counselling & Bridge Support**
  Academic counselling, mentoring and bridge-courses help students from non-urban or less privileged backgrounds adapt to university-level academic standards and succeed.
- **Equality in Opportunities Across Roles**
  Equal opportunities are ensured in recruitment, training, and leadership roles within the university, promoting diversity and inclusion across all institutional levels.
- **Strict Non-Discrimination Policy**
  Admission, evaluation and employment practices uphold non-discrimination, guaranteeing fairness, dignity and equal treatment for every member of the university community.
- **Community Outreach & Skill Development**
  Free training programmes for students from neighbouring institutions enhance inclusive education, skill enhancement and empowerment via hands-on learning experiences.

Through these coordinated efforts, the university advances inclusion and equity—strengthening educational access for disadvantaged groups, reducing socio-economic and gender disparities, and fostering a culture of equity and equal representation. These initiatives align directly with SDG 10: Reduced Inequalities and support sustainable institutional transformation

free training programs for students from neighboring institutions.

11 Sustainable Cities & Communities At Opju

❖ Campus Sustainability & Infrastructure:

> The University is committed to creating an inclusive, safe, resilient and sustainable campus ecosystem, aligned with the UN's SDG 11.

> Campus infrastructure follows green-and-sustainable design principles: efficient lighting systems, extensive green landscaping, rainwater-harvesting pits and energy-saving mechanisms.

> Biogas plants, compost pits and rain-water-harvesting units are deployed on campus to demonstrate real-life circular-resource systems.

> Civil-Engineering and materials research focus on geopolymer-based materials, recycled aggregates and industrial-waste valorisation, promoting sustainable construction practices.

> Waste-segregation and recycling policies (including "reduce-reuse-recycle") are active across campus landscaping and student-housing zones.

> Green mobility initiatives: pedestrian walkways, bicycle lanes, campus shuttle services and low-emission transport options contribute to a healthier, low-carbon campus environment.

❖ Research, Innovation & Education for Resilience

> The Centre of Excellence in Environment & Sustainability supports research on sustainable materials, waste management and eco-friendly urban infrastructure.

> Research units such as the Central Quality Testing Facility (CQTF) and the civil-engineering labs are oriented around sustainable urban development and industrial practices.

> Student projects and research activities target issues such as urban resilience, sustainable housing, resource-efficient cities and smart infrastructure.

> Sustainability components are integrated into the curriculum across engineering, science and management programmes—preparing students to lead responsible urban and industrial development.

> Workshops, faculty development programmes (FDPs) and seminars on sustainable infrastructure and smart-city development strengthen institutional capacity for urban transformation.

❖ Community & Campus Culture

> As part of outreach, the university's student units (like NSS / Eco Club) organise cleanliness drives, rural-area development projects and local community engagements aimed at improving living conditions around the campus.

> Cultural activities and events celebrating diversity (for example, community gatherings, traditional festivals, and social-awareness plays) foster a socially inclusive, vibrant and resilient campus culture.

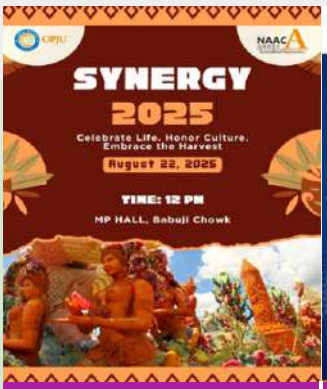
> The campus functions as a "living laboratory" for sustainable urban practices—students, faculty and staff engage directly in designing, testing and refining low-footprint infrastructure.

> Green audits, environmental monitoring, and continuous improvement systems ensure that campus operations reflect sustainable urban-settlement norms.

Glimpses

Development of pedestrian walkways, bicycle lanes, and integration with public transportation to promote low-emission mobility.

Green Mobility at OPJU



Social Sustainability - Cultural Diversity and Community Engagement

Nukkad Natak – Street Theatre for Social Awareness

Cultural Harmony and Traditional Celebrations

By integrating green infrastructure, sustainable mobility, community engagement, research-led education and inclusive campus culture, the University is building a model campus ecosystem aligned with the goals of SDG 11. The initiatives strengthen urban-settlement resilience, reduce carbon and resource footprints, advance social inclusion and prepare the next generation for sustainable development challenges.

12 Responsible Consumption And Production

- **Comprehensive Waste-Segregation System:** The campus has instituted waste-segregation at source, supported by recycling and composting units under the Centre of Excellence in Environment & Sustainability.
- **Zero/Low-Waste Events & Sustainable Procurement:** Student and faculty programmes promote events with reduced single-use plastics, eco-friendly material use, and responsible consumption practices aligned with institutional operations.
- **Waste-to-Resource Research Infrastructure:** Laboratories such as the Central Quality Testing Facility (CQTF) support research on industrial by-products (e.g., fly ash, mill rejects, GGBS) and their reuse in construction materials.
- **Curriculum Integration of Circular Economy Concepts:** Across engineering and management disciplines, modules cover life-cycle analysis, sustainable material flows, waste-to-resource technologies, and responsible production and consumption.
- **Community Outreach on Consumption & Reuse:** Through NSS and other student outreach programmes, awareness campaigns educate local communities on reducing consumption, re-using resources, and adopting sustainable lifestyles.
- **Closed-Loop Campus Operations:** Rainwater-harvesting systems, biogas plants, composting facilities and other infrastructure minimize resource extraction, reduce waste generation and foster a circular campus ecosystem.
- **Eco-Friendly Procurement Policies:** Institutional procurement prioritises locally-sourced, eco-certified and low-chemical products, supporting organisational commitments to sustainable consumption.
- **Environmental-Performance Monitoring & Audit:** Periodic audits track material and energy consumption, waste generation and resource-efficiency performance, enabling continuous improvement and accountability.
- **Student-Led Innovation in Material Footprint Reduction:** Student projects and research focus on life-cycle analysis, footprint reduction, and construction-waste minimisation, contributing to SDG 12 targets such as efficient use of natural resources and waste reduction.
- **Digitalised Waste-Management Technology:** The institution operates smart ICT-based waste-management tools including RFID-tagged bins, sensors and GIS mapping, allowing transparent and efficient waste handling and aligning with resource-efficient infrastructure practice.
- **Behavioral Change & Minimal-Waste Campus Culture:** The campus acts as a "living laboratory" for minimal-food-wastage practices, reuse of maintenance materials, green gifting for staff, and campaigns like Plastic-Awareness Week—cultivating behaviours consistent with SDG.
- **Sustainable Infrastructure Design for Resource Efficiency:** Research and operational facilities are developed with low-footprint materials, ensuring that campus buildings, labs and services support long-term sustainable production and consumption models.

Glimpses

Solid Waste Management System

Compost Pit

Chemical Waste Pit

Sustainable E-Waste Disposal for a Cleaner and Greener Campus

Medical Waste Pit

Green Gifts for a Greener Future

Smart Bin

Through these coordinated initiatives, the university demonstrates robust engagement with responsible consumption and production practices. By embedding circular-economy thinking, resource efficiency, behavioural change and technological support into campus systems, OPJU aligns its operations closely with SDG 12 and contributes to the broader sustainable development agenda.

13 Climate Action

❖ Campus Infrastructure & Sustainable Design

> Buildings are constructed with eco-friendly materials and practices—such as precast RCC, fly-ash bricks and thermal insulation—following green-building norms to reduce embodied carbon.

> Approximately 90% of common-area lighting uses LED fixtures; external street and garden lights are operated via astronomical timers synced to sunset/sunrise to maximise energy efficiency.

> The institution holds energy-audit certificates (for 2020-21 & 2021-22) recognising its efforts in energy management and conservation.

> Specialised academic programmes (e.g., M.Tech in Power Plant Engineering & Energy Management) build capacity in low-carbon systems, supporting the institution's sustainability mandate.

❖ Sustainable Mobility & Low-Emission Campus

> A "Zero Emission Vehicles (ZEV) Policy" promotes electric and non-motorised transport—cycling, walking, pedestrian pathways—and restricts fossil-fuel vehicles in designated zones to reduce GHG emissions.

> Well-designed pedestrian walkways, bicycle-lanes and campus-shuttle services connect academic blocks, hostels and recreational areas to encourage healthy, eco-friendly mobility.

> The Sustainable Transportation section of the Green Campus initiative emphasises cost-effective, clean, and active transport options for the campus community.

❖ Student Engagement & Environmental Stewardship

> The Eco Club actively engages students in tree-planting drives, campus-cleanliness campaigns, waste-segregation awareness and climate-action activities—instilling environmental responsibility and stewardship.

> Social & cultural sustainability is fostered through events such as the "Synergy 2025" themed celebration and campus street-plays (Nukkad Natak) on social/environmental themes, promoting community bonding and cultural roots.

> The campus operates as a "living laboratory" where students apply sustainable design thinking and urban-infrastructure concepts directly in their surroundings.

❖ Monitoring, Research & Outreach

> The Centre of Excellence in Environment & Sustainability steers research into sustainable materials, waste management, eco-infrastructure and urban resilience—aligning building practices with SDG 11.

> The "Green Campus & Setting" page details practices such as reuse of excavated soil for landscaping, treated water for back-filling and landscaping, and rain-water harvesting pits for groundwater recharge.

> Regular green audits, environment-and-energy audits, and monitoring systems track campus performance on resource efficiency, emissions reduction and built-environment resilience.
> Outreach programmes under NSS and other clubs engage local communities in hygiene, sanitation, green-mobility and inclusive urban-sustainability drives, extending the university's impact beyond campus boundaries.

❖ Impact & Alignment

These integrated initiatives - spanning sustainable construction, low-emission transport, civic-culture engagement, research-based infrastructure and community outreach - position the university as a model for inclusive, resilient and environmentally responsible campus development. They directly support the objectives of SDG 11 – Sustainable Cities & Communities, by:

> Reducing carbon and resource footprints in the built environment.
> Enhancing mobility and accessibility for all members of the campus community.
> Strengthening civic culture, community well-being and urban resilience.
> Using the campus as a test-bed for sustainable urban-infrastructure practices.

Eco Club Activities

Institutional Recognition and Motivation

Zero Emission Solar Electric Car

Pedestrian Path

14 Life Below Water

- **Curriculum Integration of Water-Sustainability Concepts:** Courses in Civil, Environmental and Geotechnical Engineering embed modules on runoff management, micro-plastics, industrial effluents and impacts on aquatic systems, sensitising students to "life-below-water" implications.

- **Land-to-Water Pollution Prevention:** Campus-wide waste-management systems (segregation, recycling, composting) reduce land-based pollution that could eventually enter freshwater and marine systems, thereby supporting aquatic-ecosystem health.

- **Research on Industrial Waste Utilisation:** Labs under the Centre of Excellence in Environment & Sustainability undertake research on industrial by-products (e.g., fly ash, GGBS) and their reuse—minimising harmful effluent discharge into waterways.

- **Reduced Chemical and Effluent Discharge in Operations:** Campus infrastructure and operations incorporate practices to minimise chemical-and-effluent discharge into local water bodies—demonstrating institutional responsibility aligned with aquatic-ecosystem protection.

- **Community Outreach on Consumption & Reuse:** Student clubs (Eco Club), NSS outreach and environmental drives incorporate activities such as pond/river clean-ups, campaigns on micro-plastics and local aquatic biodiversity—linking the campus and community to broader "life-below-water" goals.

- **Interdisciplinary Research & Technology for Water-Ecosystems:** The university encourages interdisciplinary student and faculty research on water-quality, sediment transport and pollutant migration from land to sea, contributing to SDG 14 .

- **Plastic-Reduction & Biodegradable-Material Policies:** A campus policy framework focuses on eliminating single-use plastics and promoting biodegradable alternatives - helping reduce marine-litter risk and support target 14.2 (protecting ecosystems).

- **Institutional Collaboration for Freshwater/Coastal Ecosystem Monitoring:** The institution can extend collaborations with local water-bodies, government agencies and NGOs to monitor and restore freshwater/coastal ecosystems - enhancing action toward SDG 14 targets.

- **Transparent Reporting of Water-&-Pollution Metrics:** Sustainability audits include metrics for wastewater quality, chemical discharge, and plastic-waste diversion - enhancing transparency and alignment with SDG 14.8 (enhanced scientific cooperation).

- **Campus as Living Lab for Aquatic Sustainability:** Through seminars, guest-lectures and student projects, the university builds youth-capacity to act on water-ecosystem health - connecting to SDG 14.3 (addressing ocean/acidification impacts) and advancing responsible stewardship.

Engaging Youth for a Plastic-Free Future – OPJU Eco-Club Initiative

By integrating curriculum, research, infrastructure, operational practices and outreach efforts focused on aquatic-ecosystem health, OPJU contributes meaningfully to SDG 14. The university thereby fosters a holistic sustainable campus-environment that extends from land to water systems.

13 Life on land

- **Green Campus & Biodiversity-Focus:**
  The university's "Green Campus" initiative is explicitly dedicated to addressing biodiversity loss, ecosystem health and sustainable campus development.

- **Native Landscaping & Soil Reuse:**
  Campus design incorporates native and drought-tolerant plant species, reuse of excavated soil for back-filling and landscaping, thereby enhancing green cover, conserving water, improving soil quality and supporting local biodiversity.

- **Resource-Efficient Land Use & Waste-Management:**
  The institution commits to sustainable resource use and land-ecosystem health via reuse of construction materials, minimal disturbance to natural terrain and established waste-management processes (e.g., composting, segregation) that protect soil and vegetation.

- **Research & Curriculum Integration on Ecosystems:**
  Academic programmes and research initiatives focus on sustainable development, conservation of terrestrial ecosystems and land-use practices—preparing students for action in ecosystem protection and responsible land stewardship.

- **Campus as a Living Laboratory:**
  The campus operations — including tree-plantation drives, biodiversity awareness campaigns, plastic-waste reduction, and clean-campus initiatives — foster environmental stewardship and reinforce the university's vision of a sustainable, resilient living environment.

- **Long-Term Ecosystem Stewardship Vision:**
  The institution acknowledges global ecological challenges such as biodiversity loss and commits to adapting its built and natural milieu accordingly - integrating green infrastructure, ecological thinking and landscape resilience into campus growth.

Glimpses

Plastic Awareness Campaign – Toward a Plastic-Free Campus

Youth for Nature – Student Tree Plantation Initiative

Integration of Native and Drought-Tolerant Species – Promoting Sustainable Landscaping

Through these initiatives, the university supports terrestrial-ecosystem conservation, promotes sustainable land use and fosters a campus culture grounded in ecological responsibility. These efforts align directly with SDG 15 and contribute to the creation of inclusive, resilient and biodiverse land-ecosystems within and around the campus.

16 PEACE, JUSTICE AND STRONG INSTITUTION

- **Transparent Governance Architecture**
  OPJU operates under a clearly documented governance framework, featuring a Governing Body, Board of Management, Academic Council, Board of Studies, Research Advisory Board and Industry Advisory Board.

- **Public Disclosure & Accountability**
  The university publishes mandatory disclosures, annual reports and audit reports, demonstrating transparency and accountability in its institutional operations.

- **Dedicated Grievance & Redressal Mechanisms**
  Institutional mechanisms such as the Students Grievance section, Ombuds-Person, Code of Conduct, Anti-Ragging policy, Internal Complaints Committee (ICC), SC/ST Cell, Equal Opportunity Cell and the "e-Samadhaan" portal help ensure fairness, equity and respect across the campus community.

- **Ethical Leadership & Curriculum Integration**
  The institution embeds ethics, social responsibility and value-based education into its curriculum, preparing students for leadership roles grounded in integrity and public service.

- **Inclusivity in Institutional Processes**
  Policies promoting equal access (via the Equal Opportunity Cell and SC/ST Cell) reflect the institution's commitment to inclusive participation and nondiscrimination.

- **Accountability through Quality Assurance**
  The presence of bodies such as the IQAC (Internal Quality Assurance Cell) and the university's accreditation efforts (e.g., NAAC) reinforce strong institutional processes and governance

- **Campus Safety and Ethical Culture**
  Regular anti-ragging awareness programmes, safe-campus policies, grievance redressal forums and support for female and vulnerable populations ensure a respectful, safe and inclusive campus environment.

- **Student Participation & Access to Information**
  Student representation in committees, open access to institutional documents and transparent administrative practices promote participatory governance and access to information—key tenets of SDG 16.

- **Community Outreach & Institutional Citizenship**
  The institution extends its values of justice and fairness beyond campus through social responsibility, outreach and community-engagement initiatives, thereby strengthening the role of education in peaceful, just and inclusive societies.

Anti-Ragging Awareness Program

Awareness Program By ICC

Through its transparent governance model, inclusive policies, robust redressal mechanisms and ethical culture, the university contributes to building strong, accountable and inclusive institutions at the university level - directly aligning with SDG 16. The cumulative effect is enhanced institutional integrity, greater trust in public education systems and stronger foundations for just and peaceful societies.

17 Partnership For The Goals

- **Formal Memoranda & Strategic Partnerships:**
  University has signed formal Memoranda of Understanding (MoUs) with other academic institutions; for example, one such MoU with Shri G. S. Institute of Technology & Science, Indore is publicly acknowledged.

- **Institutional Collaboration Culture:**
  The university's communication channels reflect a strong commitment to institutional collaboration—demonstrating recognition that partnerships enhance research, teaching and outreach activities

- **Knowledge Sharing & Capacity-Building:**
  Through these partnerships, OPJU shares resources, builds capacity for faculty and students, and delivers enriched learning experiences—all aligned with the "means of implementation" element of SDG 17.

- **Industry–Academia Linkages:**
  Partnerships are not limited to academic institutions; OPJU also engages with industry stakeholders—particularly in engineering, metallurgy and sustainability labs—thereby strengthening sector-relevant institutional networks.

- **Potential for Global Engagement:**
  While specific international MoUs for OPJU may not be extensively documented publicly, the institution has potential to leverage the broader Jindal-group network for global linkages—supporting a more expansive partnership ecosystem.

- **Mechanisms for Joint Activities:**
  Institutional linkages are used to facilitate joint workshops, guest lectures, student/faculty exchanges and research collaboration—thereby building cross-institutional capacity and aligning with SDG 17's emphasis on technical, scientific and institutional cooperation.

- **Metrics for Partnership Effectiveness:**
  The university could further strengthen this dimension by tracking metrics such as the number of MoUs signed, number of joint publications, number of exchange students, technology-transfer agreements and resource-sharing initiatives with partner institutions.

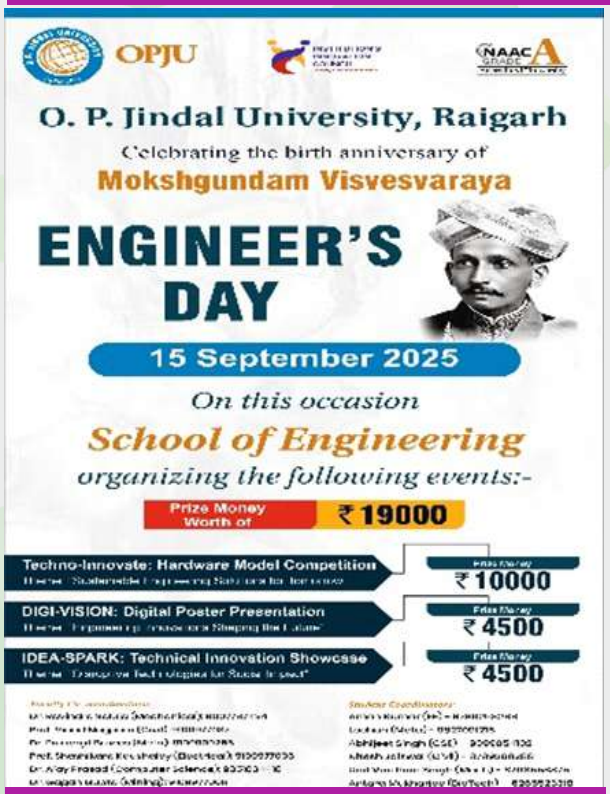
- **Institutional Anchors for Partnership:**
  OPJU's branding as a "Centre of Excellence" and its Central Quality Testing Facility (CQTF) serve as institutional anchors that can facilitate partnerships with labs, industries, certification bodies and government agencies—thereby enabling multi-stakeholder collaborations in sustainable development.

- **Outreach & Employability through Partnerships:**
  Placement drives, industry-linkage programmes and corporate training initiatives at OPJU provide platforms for students to participate in broader networks, enhancing employability, industry readiness and reinforcing sustainable economic growth through partnership ecosystems.

❖ **Global Conferences & Knowledge Exchange:**
OPJU regularly organises conferences, workshops and guest-lecture series that bring together researchers, industry professionals and international academics—thus contributing to global knowledge exchange, capacity-building and partnership-driven sustainable education.

OPJU Cricket Team at Inter-University Tournament 2025

Empowering Students through Career Opportunities



Engineers' Day Celebration at OPJU

International Conference at OPJU – Fostering Research and Innovation

By embedding structured institutional partnerships, OPJU demonstrates a robust approach to "partnerships for the goals". These linkages help extend the university's impact through shared resources, cross-institutional capacity building, industry integration and global cooperation—aligning directly with SDG 17.

Institutional Commitment to Sustainability & SDGs

OPJU integrates sustainability into curriculum, research, campus operations, and community outreach. The university's Green Campus Initiative aligns with the United Nations Sustainable Development Goals (SDGs), emphasizing clean energy, water stewardship, waste minimization, biodiversity conservation, sustainable transportation, and carbon management.

Audit Achievements: Environmental, Energy & Gender


GV/RN/ENVT/08-25/99

(Renewal) Environment Audit Certificate (As per Green Building Parameters)

It is awarded for Academic session starting June 2024- May 2025 to the Esteemed Institution

O.P. Jindal University

Punjipathra, Raigarh, (C.G.), PIN:496109

As part of the Institution's initiatives for a Healthy & Sustainable Institute the audit was conducted.
We appreciate the immense efforts taken by Staff and students towards the Environment Protection and Conservation.

Analysed for June 2024 - May 25 academic session; issued on **10 August 2025** and to be renewed by 31 July 2026

Ar. Nahida Abdulla Shaikh

Project Head and Green Building Professional-Consultant

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GV/RN/EA/08-25/97

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We appreciate the immense efforts taken by Staff and students towards the Energy Management and Conservation.

Analysed for June 2024 - May 25 academic session; issued on **10 August 2025** and to be renewed by 31 July 2026

Ar. Nahida Abdulla Shaikh

Project Head and Green Building Professional-Consultant

Energy Audit Certificate – (10.08.2025/ Raigarh,CG)


GV/RN/GN/08-25/12

Gender Audit Appreciation Certificate

It is awarded for Academic session starting June 2024- May 2025 to the Esteemed Institution

O.P. Jindal University

Punjipathra, Raigarh, (C.G.), PIN:496109

As part of the Institution's initiatives taken by the Institute to ensure an unbiased Institutional practices adopted
We appreciate the immense efforts taken by Staff and students towards the Gender Balance.

Analysed for June 2024 - May 25 academic session; issued on **26 August 2025** and to be renewed by 31 July 2026

Nahida Abdulla Shaikh

Project Head

Insert Gender Audit Certificate – (26.08.2025/ Raigarh,CG)


GV/RN/GA/08-25/99

(Renewal) Green Audit Certificate (As per Green Building Parameters)

It is awarded for Academic session starting June 2024- May 2025 to the Esteemed Institution

O.P. Jindal University

Punjipathra, Raigarh, (C.G.), PIN:496109

As part of the Institution's initiatives for a Healthy & Sustainable Institute the audit was conducted.
We appreciate the immense efforts taken by Staff and students towards the Efficient Management of Premise.

Analysed for June 2024 - May 25 academic session; issued on **10 August 2025** and to be renewed by 31 July 2026

Ar. Nahida Abdulla Shaikh

Project Head and Green Building Professional-Consultant

Green Audit Certificate – (10.08.2025/ Raigarh,CG)

Green Campus Infrastructure

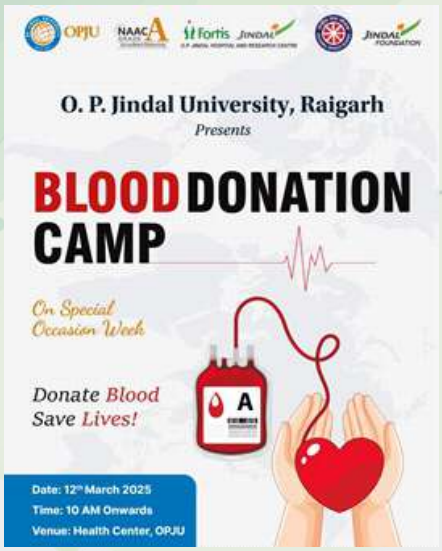
OPJU invests in renewable energy, water reuse and recharge, efficient waste management, and a pedestrian- and cycle-friendly campus. This section showcases solar infrastructure, STP reuse, and sustainable transport initiatives.

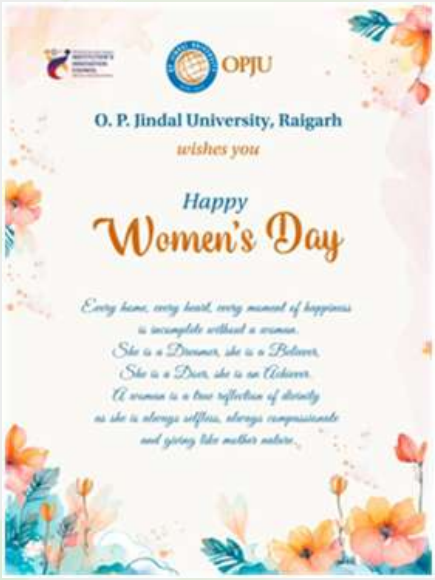
Solar infrastructure

Water Reuse Plant

Community Outreach & Social Responsibility

Through partnerships and student-led programs, OPJU promotes health, hygiene, education, and livelihood initiatives in nearby communities. This includes awareness drives, blood donation, wellness programs, and inclusive campus activities.





Student & Faculty Engagement

Eco-Club activities, innovation workshops, technology demonstrations, and cultural programs bring sustainability to life on campus. These initiatives build leadership and inspire action among students and staff.

OPJU

IEEE

OTCON 4.0

2025 4th OPJU
International Technology
Conference (OTCON)
on Smart Computing for Innovation &
Advancement in Industry 5.0
9 - 11 April, 2025

Organized By
Department of Computer Science & Engineering
O. P. Jindal University,
Raigarh, India

OPJU | Institution's Innovation Council | MoE's Innovation Cell | OPJU Innovation Center | NAAC A

Institution's Innovation Council (IIC)
O. P. Jindal University, Raigarh
is organizing

Field/Exposure Visit to FAB Lab Innovation Centre

14th July 2025

O. P. Jindal Knowledge Park, Punjipathra, Raigarh [C.G.] 496109
Toll Free : 1800 12000 8090 | Web : www.opju.ac.in

OPJU | Institution's Innovation Council | OPJU Innovation Center | NAAC A Grade Accredited University

Institution's Innovation Council (IIC)
O. P. Jindal University, Raigarh

In association with:
OPJU Innovation Center (OPJU-IC), Research & Development Cell (RDC) and Department of Metallurgical Engineering
Organizes
A Session on

"Intellectual Property Rights its opportunities and challenges: For Innovators and Entrepreneurs"

Date: April 25, 2025
Time: 11:00 AM – 1:00 PM

Speaker

Mr. Amit Patel
CEO - Lairak AI Telematic
Ex- Chalbo India

Coordinators:
Dr. Vatsala Chaturvedi
Assistant Professor (Sr. Grade)
Dept. of Metallurgical Engineering
Dr. Nidhi Khobragade
Assistant Professor
Dept. of Metallurgical Engineering

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OPJU O. P. Jindal University, Raigarh
Celebrating

NAAC A Grade Accredited University

NATIONAL SPORTS DAY

29th - 31st August 2025

Remembering
"The Wizard of Hockey"
Major Dhyan Chand

Awards & Recognitions

Alignment with UN Sustainable Development Goals:

OPJU's initiatives reflect SDGs 3 (Good Health & Wellbeing), 4 (Quality Education), 5 (Gender Equality), 6 (Clean Water & Sanitation), 7 (Affordable & Clean Energy), 9 (Industry, Innovation & Infrastructure), 11 (Sustainable Cities & Communities), 12 (Responsible Consumption & Production), 13 (Climate Action) and 15 (Life on Land).

Future Roadmap (2025–2030)

- **Carbon-Neutral Campus:** The university targets carbon neutrality by 2030 through the expansion of solar power installations, integration of renewable energy systems, and adoption of energy-efficient technologies across academic, residential, and administrative facilities.
- **Zero-Waste Mission:** Plans are underway to attain zero-waste status by enhancing waste segregation infrastructure, scaling up composting and biogas generation, and promoting the principles of reuse and recycling across all campus operations.
- **Water Sustainability:** Efforts will focus on expanding rainwater harvesting systems, groundwater recharge structures, and greywater recycling units to achieve full water self-sufficiency and reduce external dependency.
- **Green Mobility:** Initiatives include the introduction of electric vehicles for intra-campus transport, provision of dedicated cycling tracks, and pedestrian-friendly pathways to minimize carbon emissions from conventional vehicles.
- **Sustainability Research Hub:** A dedicated Centre for Sustainable Development and Green Technology will be established to foster interdisciplinary research in renewable energy, waste valorization, circular economy, and climate-resilient technologies.

- **Biodiversity Enhancement:** The campus landscape will be enriched through eco-parks, herbal gardens, and green corridors designed to conserve native flora and fauna while raising biodiversity awareness among students and staff.
- **Curriculum Integration:** Sustainability and SDG-based learning modules will be integrated across all programs to ensure that every graduate is equipped with knowledge and competencies aligned with global sustainability goals.
- **Community Partnership:** Outreach initiatives will be strengthened through collaboration with local communities and industries on projects related to clean energy, water management, and sustainable livelihoods, extending the university's impact beyond campus boundaries.
- **Digital Sustainability Monitoring:** A Smart Campus Dashboard will be developed to digitally monitor, analyse, and report real-time data on energy consumption, waste generation, and resource efficiency, supporting data-driven decision-making.
- **Annual Sustainability Reporting:** The institution will continue to publish detailed annual sustainability reports to track measurable progress, ensure transparency, and align strategic priorities with national and global sustainability agendas.

Acknowledgements

Prepared collaboratively by OPJU's Green Initiatives Team, faculty coordinators, staff, and student volunteers. We thank all contributors who provided data, visuals, and stories that bring this report to life.

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