# Report
# on
# UN SDG 9 — Industry, Innovation and Infrastructure



**University's contributions in achieving**

**UN SDG — 9**

**Year – 2024**

## Introduction

"Build resilient infrastructure, promote inclusive and sustainable industrialisation, and foster innovation."

Swami Vivekanand Subharti University, Meerut established infrastructure and initiatives exemplify SDG 9 by establishing a dynamic ecosystem for education, healthcare, research, cultural development, and sustainable operations. The institution's focus on renewable energy, digital transformation through e-governance (ERP, LMS), efficient maintenance systems, and integrated learning facilities demonstrates sustainability and innovation in practice across all verticals of the campus.

### University –wide Initiatives -

- A state-of-the-art campus spanning over 250 acres, featuring advanced laboratories, smart classrooms, high-speed Wi-Fi, and green-certified buildings.
- Houses solar power systems, water recycling plants, and energy-efficient infrastructure, aligned with sustainable development practices.
- Developed ICT-enabled teaching–learning systems, including a robust Learning Management System (LMS), digital libraries, and smart assessment platforms for seamless education delivery.
- Ensures universal accessibility through ramps, elevators, and PwD-friendly facilities, supporting inclusive infrastructure development.
- Established the Subharti Incubation and Innovation Centre to nurture start-ups, innovation, and entrepreneurship across all faculties.
- Recognized as a Mentor Institute under the Institution's Innovation Council (IIC), Ministry of Education, and Government of India.
- Organizes innovation hackathons, prototype competitions, and interdisciplinary research projects to foster creativity and problem-solving.
- Promotes patent filing, Intellectual Property Rights (IPR) workshops, and research commercialization for faculty and students.
- Encourages publications in Scopus, and indexed international journals, contributing to global knowledge exchange.
- Maintains strong MoUs with industries, R&D organizations, and professional bodies for joint projects, internships, and skill training.

- Implements AICTE IDEA Lab and Atal Innovation Mission initiatives to promote hands-on innovation and product development.
- Conducts industry-academia interaction programs, entrepreneurship conclaves, and expert lectures to bridge academic learning with industrial needs.
- Runs skill-based programs aligned with NSDC, Skill India Mission, and Atmanirbhar Bharat Abhiyan, empowering youth with employable and entrepreneurial skills.
- Equipped with advanced laboratories supporting research in engineering, medical sciences, pharmacy, and life sciences.
- Hosts Centres of Excellence in Artificial Intelligence, Renewable Energy, Biotechnology, and Sustainable Development.
- The Central Instrumentation Facility provides interdisciplinary research support, data analytics, and industrial consultancy services.
- Implements a robust Start-Up and Incubation Policy offering seed funding, mentorship, IP support, and networking opportunities for student innovators.
- Operates paperless e-office systems, digital repositories, and online administrative platforms for efficiency and sustainability.
- Encourages eco-friendly campus development through rainwater harvesting, solar lighting, waste segregation, and recycling initiatives.
- Prioritizes resilient, inclusive, and low-carbon infrastructure planning to ensure equitable access for all stakeholders.

## A. Infrastructure Development

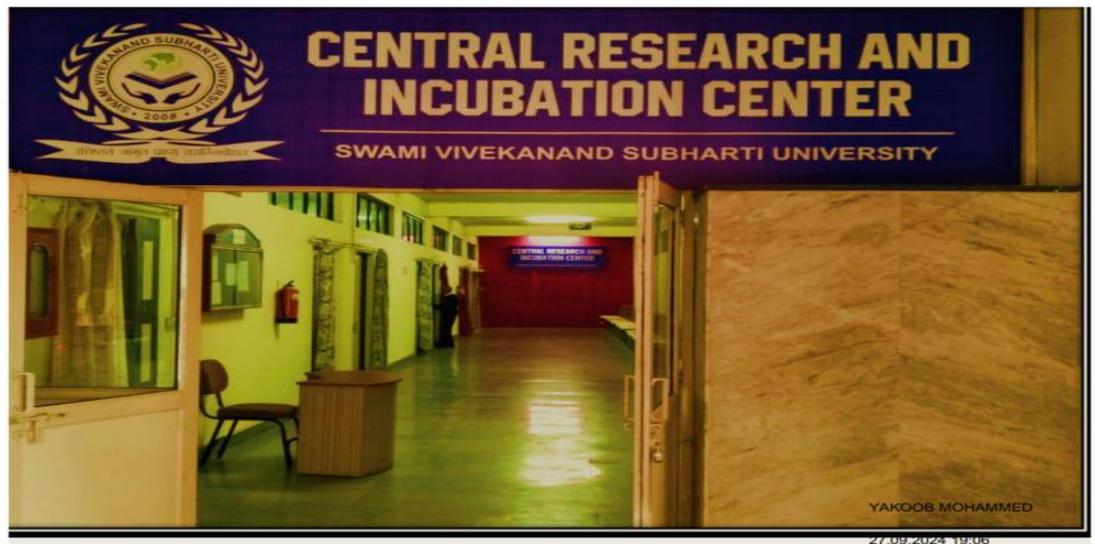### 1: Teaching, Learning & Skill Acquisition Infrastructure

The university has 324 classrooms and 454 laboratories catering to diverse disciplines such as Medicine, Engineering, Physiotherapy, AYUSH, Management, Fine Arts, and Buddhist Studies. Each academic block is equipped with ICT-enabled smart classrooms, clinical learning centers, and skills development laboratories.

**Highlights include:**

- AYUSH learning-cum-therapy centers integrating traditional medicine and innovation.
- Simulation labs and nursing skill centers with advanced mannequins.
- Engineering technology workshops focusing on automation and design innovation.

4.1.1 The Institution has adequate physical facilities for teaching –learning viz., classrooms, ICT-enabled classrooms, seminar AND skills acquisition viz. Clinical learning, learning in the community AYUSH-related learning cum therapy center, well equipped laboratories, Skills labs etc.

| Name of Faculty | Number of facilities for teaching –learning viz., classrooms, ICT-enabled classrooms, seminar halls | Facilities for Clinical learning, learning in the community, AYUSH-related learning cum therapy center, well equipped laboratories, Skills labs etc. |
|---|---|---|
| Faculty of Medicine | 91 | 186 |
| Faculty of Dental Science | 13 | 50 |
| Faculty of Nursing | 18 | 24 |
| Faculty of Physiotherapy and Allied Sciences | 8 | 6 |
| Faculty of AYUSH | 6 | 27 |
| Faculty of Pharmacy | 13 | 22 |
| Faculty of Engineering & Technology | 36 | 37 |
| Faculty of Law | 12 | 4 |
| Faculty of Management & Commerce | 20 | 12 |
| Faculty of Science | 36 | 19 |
| Faculty of Education | 28 | 30 |
| Faculty of Fine Arts | 20 | 25 |
| Faculty of Arts & Social Sciences | 19 | 11 |
| School of Buddhist Studies | 4 | 1 |
| **Total** | **324** | **454** |

## 2: Library and Digital Learning Systems

### 1. Robust Academic Infrastructure

- The university has two major libraries — Central Library for Medical Sciences and Gen. G. S. Dhillon Central Library for non-medical streams — supported by seven institutional and several departmental libraries.

- This extensive infrastructure ensures inclusive access to knowledge resources across disciplines, contributing to sustainable educational infrastructure.

## 2. Technological Advancement in Library Management

- Adoption of KOHA – an open-source Integrated Library System (ILS) in 2020–21 marks a major step toward digital transformation and automation in academic infrastructure.
- KOHA supports acquisitions, circulation, cataloguing, serials management, and reporting, enhancing operational efficiency and transparency.



**LOGIN PAGE**
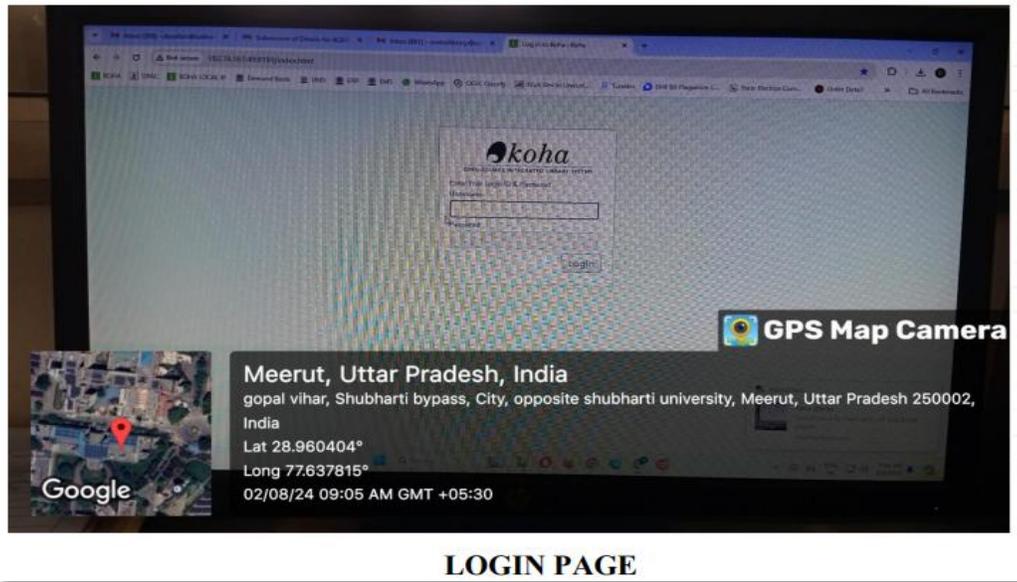
## 3. Digital and Research Support Systems

- Libraries offer internet-enabled access to global research databases like EBSCO, DELNET, Scopus, SCC Online, and British Council Library, promoting research and innovation aligned with SDG 9.
- Services include digital library access, plagiarism checks, and OPAC (Online Public Access Catalogue), ensuring academic integrity and accessibility.
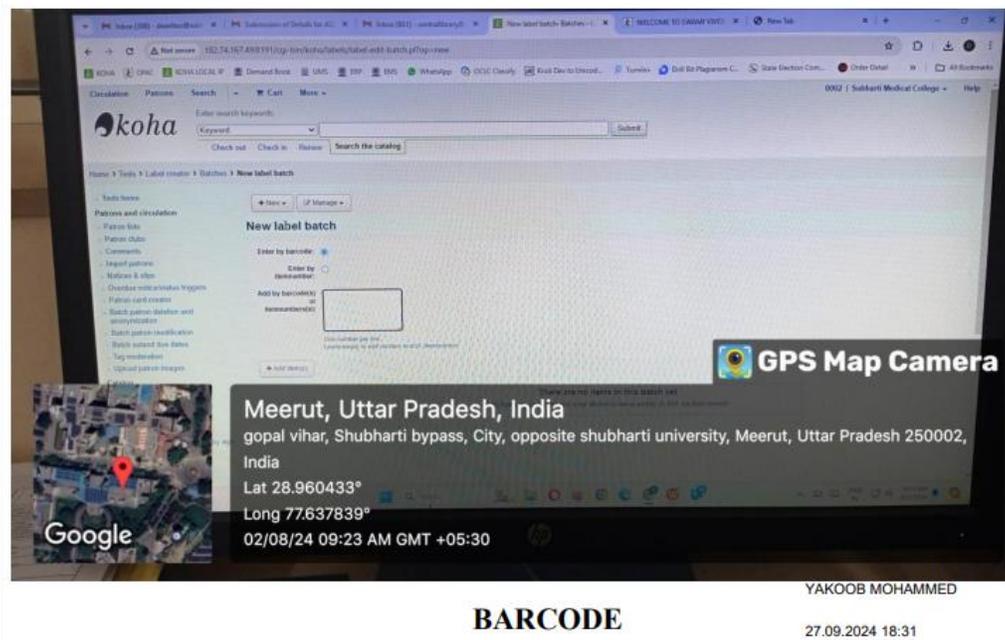


**ACCESSION**

## 4. Interoperability and Global Standards

- KOHA complies with MARC 21 and Z39.50 standards, ensuring compatibility with international systems and sustainable knowledge-sharing networks.
- Features like RSS feeds, multilingual support, and offline circulation make it user-friendly and inclusive.

## 5. Future-Ready Smart Infrastructure

- Planned integration of RFID-enabled digital flap barriers linked to student digital IDs will enhance security, automation, and contactless access.
- This move aligns with the goal of building resilient, smart, and sustainable institutional infrastructure.



## 6. Accessibility and Inclusivity

- Web-based access through browser interfaces (using XHTML, CSS, and JavaScript) ensures platform independence, making resources available to a wide user base.
- Promotes digital inclusion and equitable access to educational materials.

## 7. Sustainable Knowledge Ecosystem

- The integration of digital tools and open-source systems reduces dependence on proprietary software and contributes to cost-effective and sustainable library operations.
- Encourages a culture of continuous learning, innovation, and sustainability.

## 3: IT infrastructure and Digital Governance

Swami Vivekanand Subharti University has established a robust and technology-driven IT infrastructure that supports both academic and administrative functions, contributing significantly to digital innovation and institutional efficiency. The university operates a scalable ERP System (Simplest) that integrates admissions, examinations, fee management, attendance, and hostel allocation while being linked with the Learning Management System (LMS) for streamlined academic operations. The Employee Management System (EMS) automates key HR processes such as attendance, payroll, and performance evaluation, enabling data-driven staff management through analytics and reporting tools. The
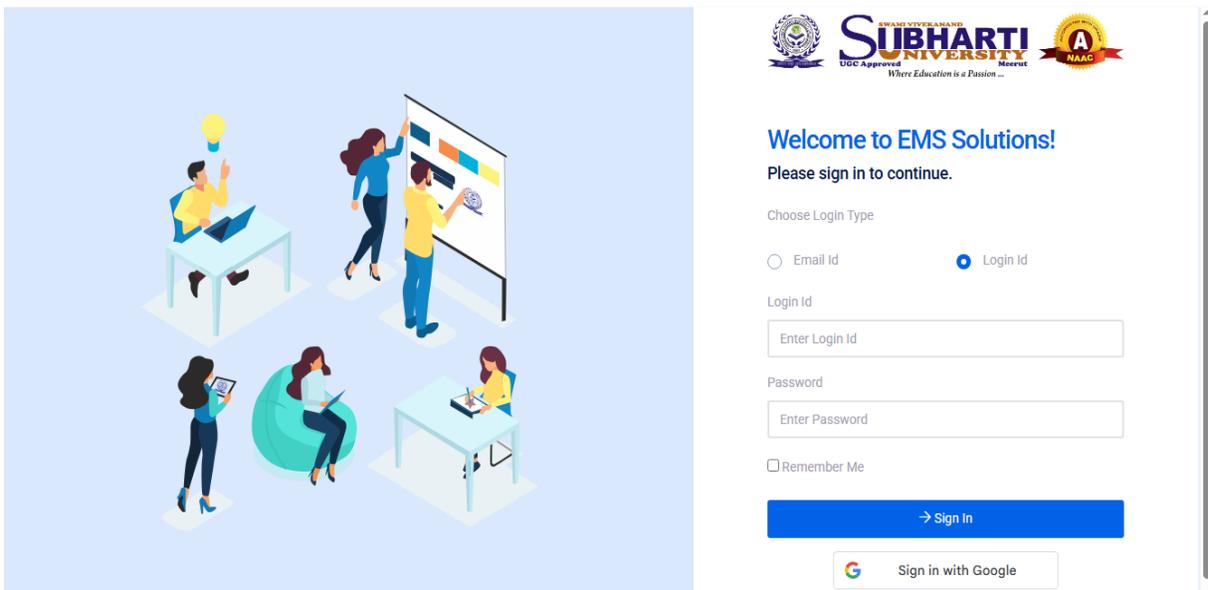
HMPK Demand Book System ensures transparent and efficient management of departmental requisitions, inventory, and procurement. With over 180 LCD projectors, 60 smart boards, and 300 Wi-Fi access points**,** the university provides an extensive network for interactive and technology-enabled learning. The campus also features seven fully equipped webinar rooms with advanced audio-visual facilities for virtual classes and meetings on platforms like Zoom and Microsoft Teams. In addition, digital kiosk machines integrated with the ERP system offer student's self-service access to academic records and applications.

The university's network backbone comprises 12 virtual servers**,** Cisco network switches, and 1.5 Gbps internet bandwidth**,** ensuring uninterrupted connectivity and scalability. Security and surveillance are maintained through 2,000 HD IP cameras and Cisco Meraki firewalls, providing robust protection against cyber threats. With approximately 2,000 computer systems configured for varied academic needs, THE UNIVERSITY's IT ecosystem exemplifies a sustainable, secure, and future-ready digital environment that aligns with the goals of SDG 9 – Industry, Innovation, and Infrastructure.
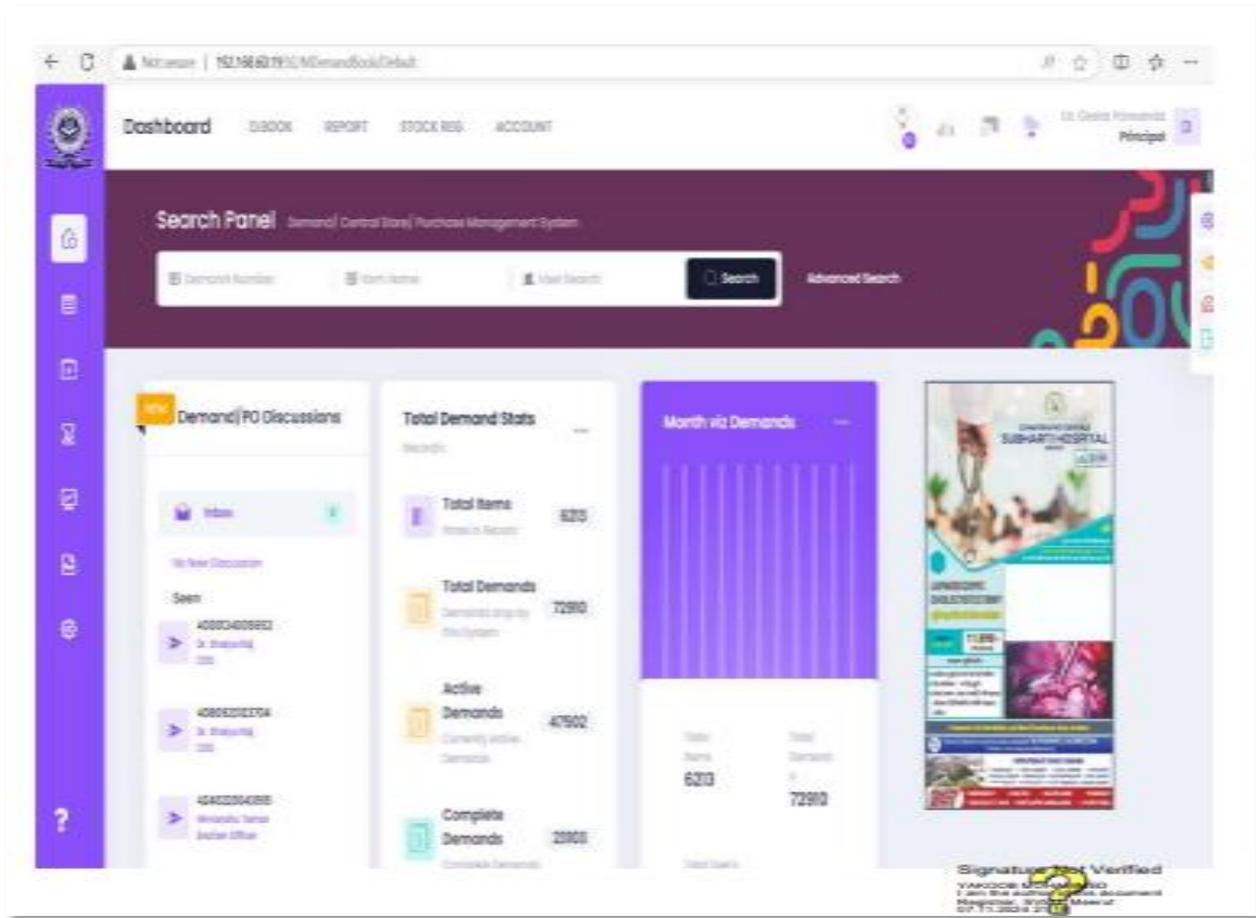
**ERP**



**EMS**

# HMPK Demand Book System



# LCS



XJ5M+8MV Yamonachi Park, Meerut, Uttar Pradesh 250002, India

Latitude
28.9566989°

Longitude
77.6372213°

Local 04:01:28 PM
GMT 10:31:28 AM

Altitude 231 meters
Friday, 14.06.2024

## 4: Campus Infrastructure and Facilities

The Subhartipuram University campus, spread across 250 acres, is an eco-friendly and self-sustained environment featuring 20 acres of green lawns and nearly 20,000 trees. Sustainability is embedded through solar rooftop panels, sensor-based lighting, biogas plants, a greenhouse, nursery, and terrace gardens.

Campus life is supported by three utility shopping complexes, 18 cafés and canteens, and 16 hostels, including accommodations for international students and couples, all equipped with mess, study, and recreation facilities. Eleven residential blocks serve faculty and staff with 24×7 power and water supply.

The Chhatrapati Shivaji Subharti Hospital, a 24 x 7 tertiary care center, anchors health services, complemented by a gym, wellness spa, yoga halls, and Yashoda's Palna crèche. Recreation is promoted through sports grounds, indoor facilities, and playgrounds, with evening vehicle restrictions ensuring a safe, walkable campus.
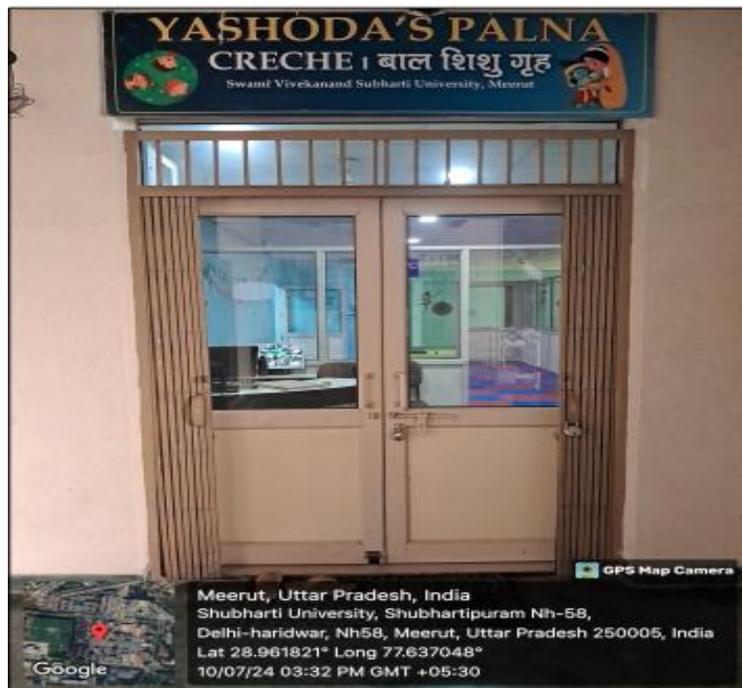


Conveniences include a guest house, electric campus vehicles, city bus service, full Wi-Fi coverage, and robust security, making the campus a sustainable, inclusive, and technology-enabled ecosystem.

- Hostels: 8 for girls (1,151 rooms) and 8 for boys (1,367 rooms).



(Image: Lachit Borphukan Boys Hostel)

Mar 8, 2024 2:44:14 PM
28°57'45.858"N 77°38'12.679"E
Meerut

## Girls' Hostel



XJ5M+8MV Yamonachi Park, Meerut, Uttar Pradesh 250002, India

Latitude 28.95938973°
Longitude 77.63675113°
Local 09:04:58 AM
GMT 03:34:58 AM
Altitude 224 meters
Wednesday, 12.06.2024

(Image: Bhagini Nividita Girls Hostel)



बेगम हजरत महल महिला छात्रावास
BEGUM HAZARAT MAHAL GIRL'S HOSTEL

XJ5M+8MV Yamonachi Park, Meerut, Uttar Pradesh 250002, India

Latitude 28.95971625°
Longitude 77.63572695°
Local 09:11:35 AM
GMT 03:41:35 AM
Altitude 224 meters
Wednesday, 12.06.2024

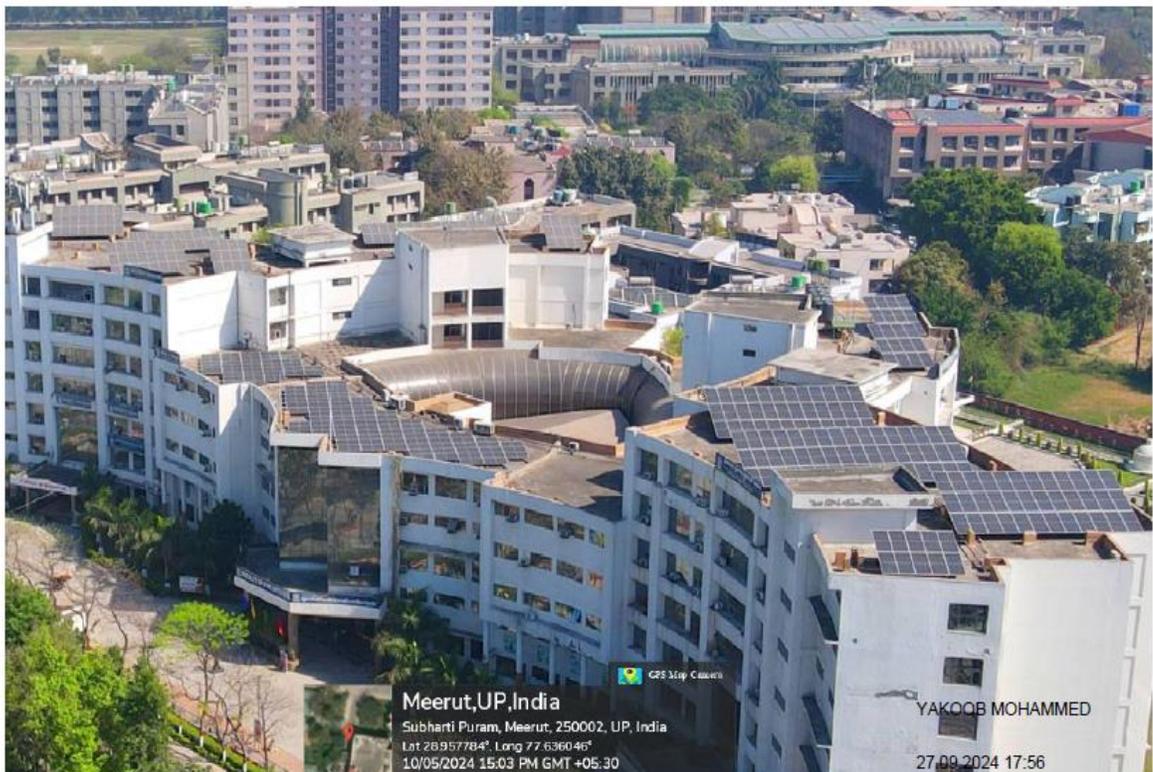Image: Begum Hazrat Mahal Girls Hostel)

27.09.2024 17:56

- Energy Infrastructure: Solar Panels and ETP/STP units ensuring renewable operations.

# 1.Alternate Source of Energy (Solar Panels)



**Solar Panels (Buildings)**

XJ5M+8MV Yamonachi Park, Meerut, Uttar Pradesh 250002, India

Latitude
28.96126913°

Longitude
77.63779746°

Local 10:53:24 AM
GMT 05:23:24 AM

Altitude 224 meters
Friday, 07.06.2024



PACITY-1.1 MLD

Subhartipuram, NH-58, Delhi-Haridwar, NH58, Meerut, Uttar Pradesh 250002, India

Latitude
28.95685219°

Longitude
77.63264799°

Local 11:04:02 AM
GMT 05:34:02 AM

Altitude 228 meters
Friday, 07.06.2024

- Sustainability Mobility: Electric vehicles, golf carts, and e-rickshaws promote green transportation.
- Amenities: Cafeterias, ATMs, Banks, Shopping complexes, Gym, Auditoriums, and Temples enhance institutional accessibility.



(Image: Durga Bhagwati Shopping Complex)

## 2. Bank & ATM

**MARS Café**



**(Image: Rakhi Canteen)**

These environmentally responsible developments embody holistic growth with energy efficiency and inclusivity.

## 5: Maintenance Management Systems

Swami Vivekanand Subharti University, spread across 250 acres, ensures efficient infrastructure maintenance and management through a structured and well-coordinated system led by the Chief Administrative Officer (CAO) and dedicated supervisory teams. The campus is managed through specialized departments that work collaboratively to maintain a safe, sustainable, and functional environment conducive to academic excellence.

Key departments include:

1. Purchase Department – Oversees procurement using the *HMPK* inventory software for transparent and timely resource acquisition.

2. Central Store – Maintains stock records and ensures prompt supply of materials to various departments.

3. Maintenance Department – Provides 24×7 support for plumbing, water systems, waste management, and facility upkeep.

4. Electrical Department – Ensures uninterrupted power supply and timely repair of electrical installations.

5. IT Department – Manages IT infrastructure, networking, and system maintenance.

6. Security Department – Ensures round-the-clock campus safety through in-house and outsourced personnel.

7. Horticulture Department – Maintains the university's greenery, gardens, and sports grounds.

8. Construction Department – Handles new projects, renovations, and custom furniture fabrication.

9. Scrap Department – Manages recycling, waste segregation, and e-waste disposal.

10. Medical Repair Unit – Ensures proper maintenance and functioning of medical equipment.

11. Automobile Repair Centre – Maintains the university's fleet of buses, cars, and solar carts.

12. Hostel and Facility Committees – Oversee cleanliness, hygiene, and living standards in student residences.

13. Library and Laboratories – Managed by trained staff ensuring upkeep of resources, systems, and equipment.

Through this integrated maintenance and management framework, the university upholds operational efficiency, sustainability, and safety, ensuring that all infrastructure remains functional, eco-friendly, and aligned with SDG 9's vision of resilient and innovative infrastructure.

SUBHARTI UNIVERSITY
AN ISO 21001: 2018 ORGANIZATION

OFFICE OF THE REGISTRAR
SYED ZAFAR HUSSAIN
P.G.D.C.A. M.B.A.
REGISTRAR
adn@subharti.org

Ref. No. L-03/SVSU/2024/2113

Dated: 20.05.2024

### OFFICE ORDER

A meeting for "Maintenance of the Campus and Infrastructure" is scheduled to be held on 27.05.2024 (Monday) at 2:00 P.M. under the Chairmanship of Mr. Hari Prakash Gupta, Director- Energy in the University Conference Hall.

The agenda of the meeting shall be as follows:

**Agenda No. 1:** Review of Campus Roads

**Agenda No. 2:** Operation of Security Barriers

**Agenda No. 3:** To review the accommodation maintenance & status.

**Agenda No. 4:** Review of installation and maintenance of CCTV.

**Agenda No. 5:** To review the process of Bio Compost formation.

**Agenda No. 6:** Review of cleaning of overhead water tanks.

**Agenda No. 7:** Maintenance of purifiers/R.O. installed at the University.

**Agenda No. 8:** Review of Air, Noise and Water testing audit reports.

**Agenda No. 9:** Review the use of STP treated water audit reports.

**Agenda No. 10:** Checking of fire extinguishers expiry dates.

All members are requested to attend the meeting.

(Syed Zafar Hussain)
Registrar (O&O)

Copy to:

1. Hon'ble Vice-Chancellor 2. Mrs. Lovely Maheshwari (Purchase Department) & Mr. Dharmendra Kumar (IT the Department) 4. Mr. Deshraj Bharti (Accommodation Department) 5. Mr. Anandpal Singh (Horticulture Department) 6. Mr. A.C. Pathak (Horticulture Department) 7. Mr. S.K. Sharma (Central Store) 8. Mr. Inderpal (Maintenance Department) 9. Col. Rajesh Tyagi (Security Department) 10. Mr. V.K. Nagar (Construction Department) 11. Mr. Harshwardhan Kaushik (Administrative Officer) 12. Mr. V.K. Rajput (Electrical Department) 13. Mr. Harendra Kumar (Electrical Department)
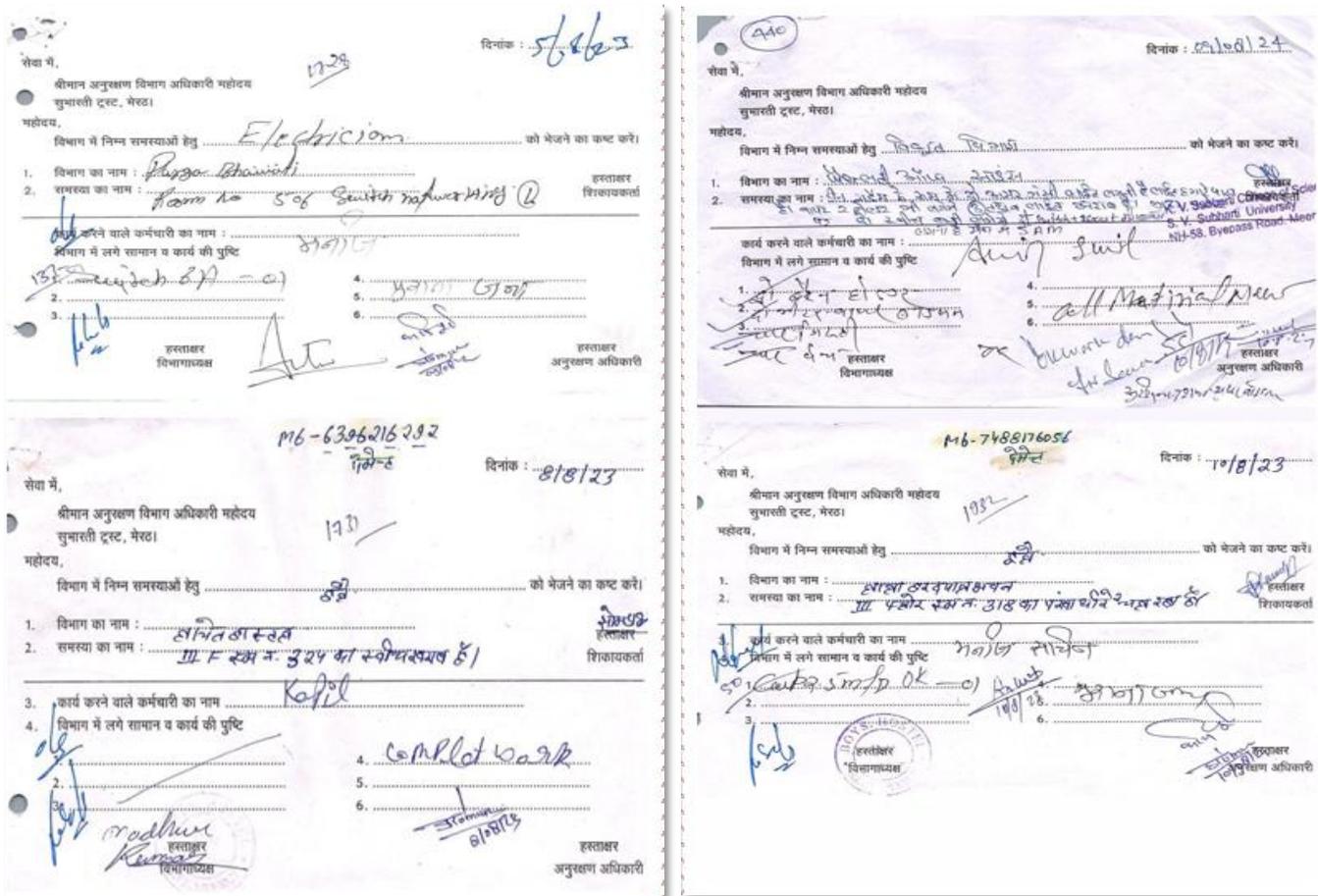
Registrar (O&O)

0121 6578060

Subhartipuram. NH-58, Delhi-Haridwar Bypass Road, Meerut 250005, (U.P.) India.

**LOG BOOKS**



## 6: Sports and Cultural Excellence

THE UNIVERSITY's sports and cultural initiatives highlight holistic development and youth empowerment aligned with SDG 9's innovation pillar.

Sports Facilities: Badminton, Boxing, Dojo, Yoga, Wrestling, and Athletics fields as documented in geotagged images.

Achievements: THE UNIVERSITY athletes secured 12 medals at AIU National and International levels including kickboxing, rope skipping, and Wushu.

## Sports Facilities

**Badminton Court**



**Table Tennis**

## Dojo & Wrestling Hall



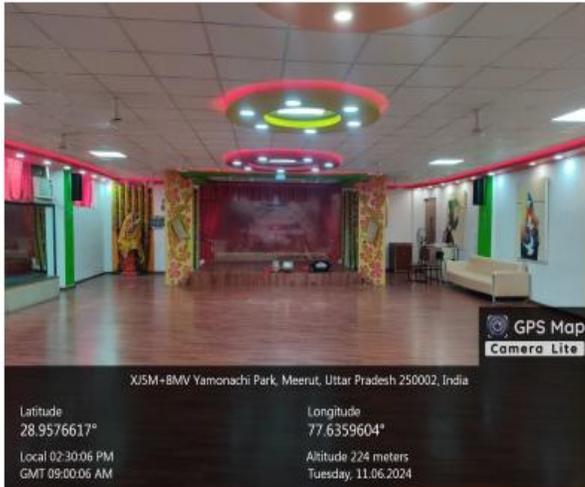## Gymnastics & Aerobics Hall
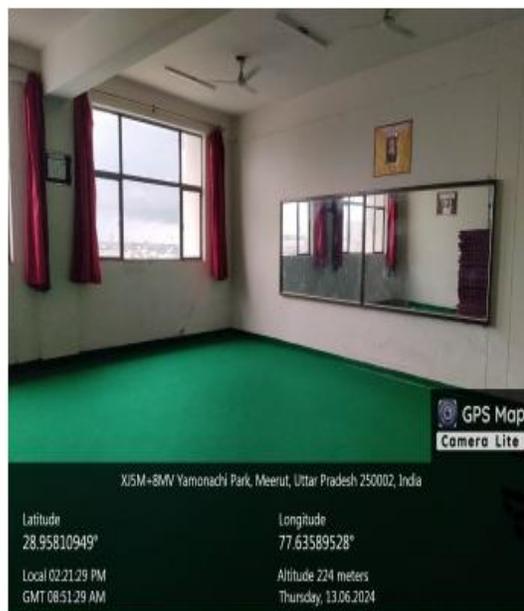


## NCC



**Cultural Highlights:** The University's flagship event, SPANDAN 2023–24, featured music, dance, drama, and art competitions across 20 colleges, promoting creativity and inclusion.
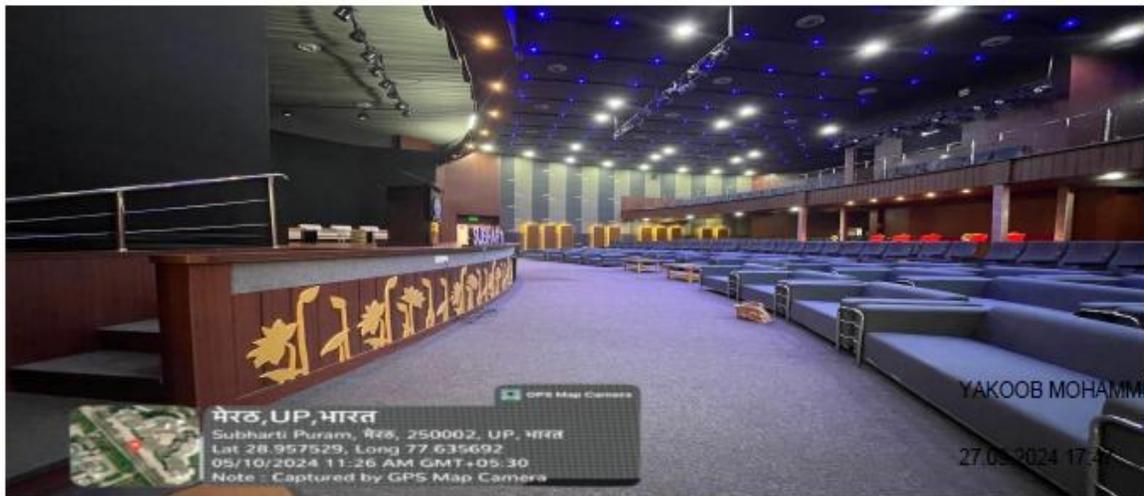
# Cultural Facilities

### Pt. Birju Maharaj Dance Hall



### Guru Tegh Bahadur Auditorium



### Satyajit Ray Auditorium



### Maangalaya Convention Centre/auditorium

Recognition: The university's students achieved a Guinness World Record during the Khajuraho Nritya Kumbh festival and excelled at the 37th AIU Central Zone Youth Festival.

These programs reinforce the link between creativity, innovation, and resilience in youth development.

## 7: Healthcare and Patient Care Facilities

Subharti Hospital is a critical part of its innovation infrastructure in healthcare. The facility recorded:

- 594,567 outpatients and 38,558 inpatients during 2023–24.
- IPD bed occupancy above 80%, surpassing national benchmarks.
- Clinical units like MRI, Hematology, Pathology, Line Probe Assay, and ELISA laboratories.

**CHHATRAPATI SHIVAJI SUBHARTI HOSPITAL**
**Subharti Medical College**
Recognized by Govt. of India, Ministry of Health & Family Welfare, Govt. Letter No. U.12012/69/66-ME(P)
Website: medical.subharti.org, e-mail: medical@subharti.org, Ph.: 0121-3055000 (Extn: 2118), Telefax: 0121-2439127, 2439057
A constituent college of
**SWAMI VIVEKANAND SUBHARTI UNIVERSITY**
(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)

## OUTDOOR & INDOOR PATIENTS DETAILS
### FROM 1st August 2023 TO 31 July. 2024

| Month | Total No of OPD | Total No of IPD |
|-------|-----------------|-----------------|
| August | 49713 | 3048 |
| September | 50679 | 3012 |
| October | 48722 | 3363 |
| November | 42065 | 2763 |
| December | 51374 | 3434 |
| January | 48759 | 3223 |
| February | 50203 | 2999 |
| March | 51021 | 3091 |
| April | 48524 | 3222 |
| May | 56094 | 3656 |
| June | 49698 | 3509 |
| July | 47715 | 3238 |
| Total | 594567 | 38558 |

Dr. (Brig) H.S. Minhas
Senior Medical Superintendent

Senior Medical Superintendent
Chhatrapati Shivaji Subharti Hospital

## DENTAL CLINIC
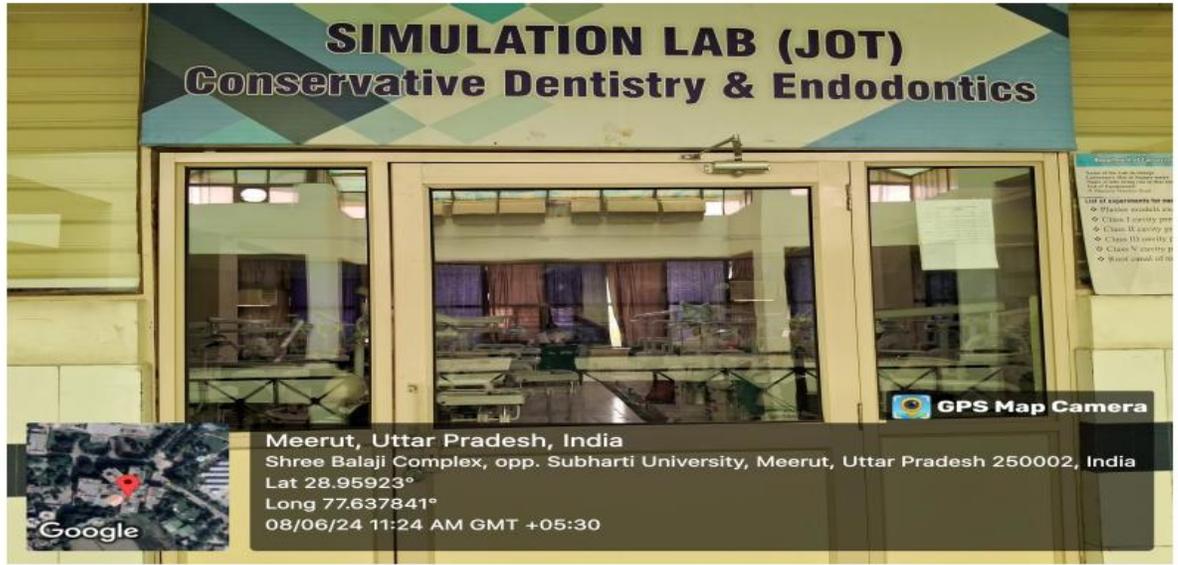


## SEROLOGY: ELISA READER
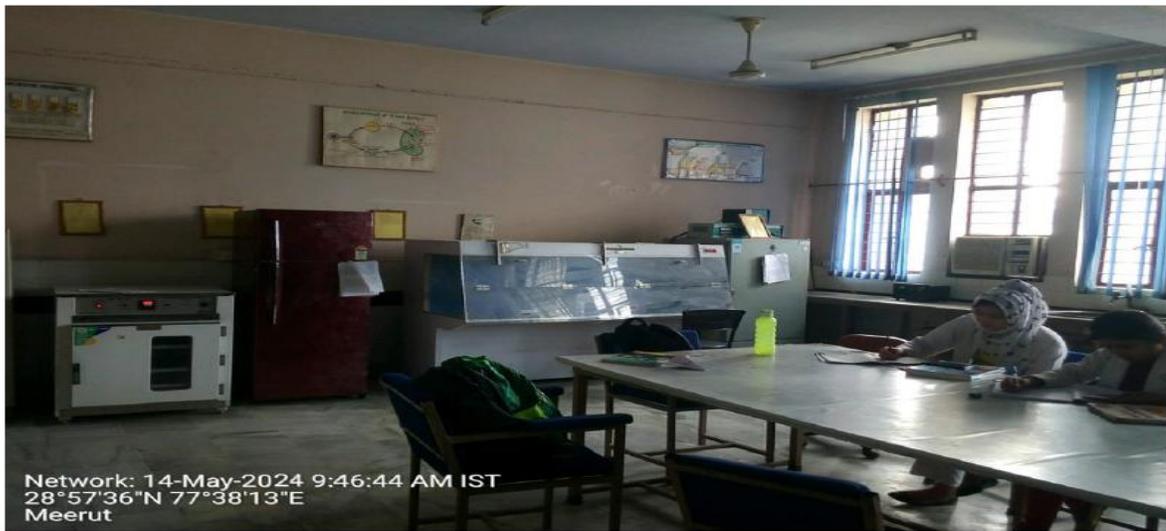
Research spaces such as DNA Extraction Units, Forensic Labs, and Cardiovascular Research Sections — offering multidisciplinary collaboration opportunities.

These facilities emphasize innovation through medical education, research, and community service.



**MRI MACHINE**



Meerut, Uttar Pradesh, India
XJ5P+XMQ, Meerut, Uttar Pradesh 250002, India
Lat 28.960451°
Long 77.636998°
22/07/24 12:37 PM GMT +05:30

**8: Logistical Support and Mobility Sustainability**

The fleet inventory includes eco-friendly elements listed in the Campus Facilities List:

- 5 Electric Cars



- 22 E-scooters



- 12 E-rickshaws

- Dedicated ambulances and shuttle buses ensuring accessibility and carbon-footprint reduction



These reflect direct contributions toward SDG target 9.4—promoting clean and resource-efficient technological infrastructure.

## B. Innovation Promotion

1. **Comprehensive Research Policy:**
   The university has formulated a well-defined research policy providing a structured framework and robust institutional support for research and innovation across disciplines.

2. **Advanced Research Infrastructure:**
   Equipped with modern laboratories, pre-clinical trial facilities, and specialized research centers, the university provides an enabling environment for cutting-edge experimentation and innovation.

3. **University Research Council:**

A University Research Council (URC) has been established to monitor, evaluate, and enhance the performance of researchers, ensuring quality assurance and accountability in research outputs.

**SUBHARTI UNIVERSITY**
SWAMI VIVEKANAND
Approved by UGC    *Where Education is a Passion...*
AN ISO 21001: 2018 ORGANIZATION

Accredited with Grade A — NAAC

OFFICE OF THE REGISTRAR
**SYED ZAFAR HUSSAIN**
P.G.D.C.A; M.B.A.
**REGISTRAR**
(ODL & OL)
adr@subharti.org

Ref. No.: U-748/SVSU/2023/485                    Dated: 02.11.2023

## UNIVERSITY RESEARCH & DEVELOPMENT CELL

University Research & Development Cell was established as an umbrella body for central research work as per the direction of the UGC; vide letter No. U-237/SVSU/2023/2190 dated 16.06.2023. Further to this University Research Council & Advisory Body (URCAB) has been constituted to ensure smooth functioning of the R&D Cell.

A copy of the same along with organogram is attached herewith for your information please. This supersedes all the letters related to the Research Committees of the University.

Thanking you,

Registrar (o&o)

*Enclosure: As above*
Copy to:
1. Hon'ble Vice-Chancellor
2. Chief Executive Officer
3. Pro Vice-Chancellor
4. Director Research, IQAC
5. HsOI/HsOD
6. Addl. Registrar (G/T/NM/M)
7. University R&D Cell members
8. Finance Officer
9. IT Department

Registrar (o&o)

0121 6678000
Subhartipuram, NH-58, Delhi-Haridwar Bypass Road, Meerut 250005, (U.P.) India

4. **Capacity Building and Training:**
   Regular workshops, seminars, and lecture series are conducted focusing on research methodology, ethical practices, IPR awareness, and industry-academia collaboration to strengthen research competence.

5. **Central Research and Incubation Center (CRIC):**
   The CRIC acts as a central hub for interdisciplinary research and innovation, fostering collaboration across departments and with external partners.



**Central Research Station**

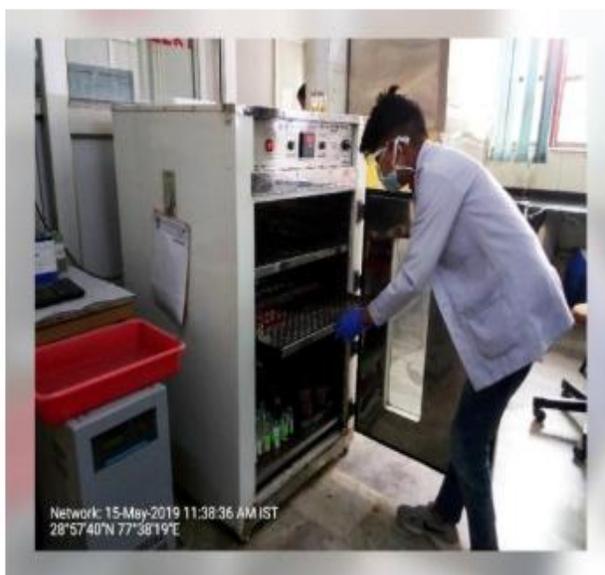

**Molecular Genetics Lab**



**Basic Life Support (BLS)**
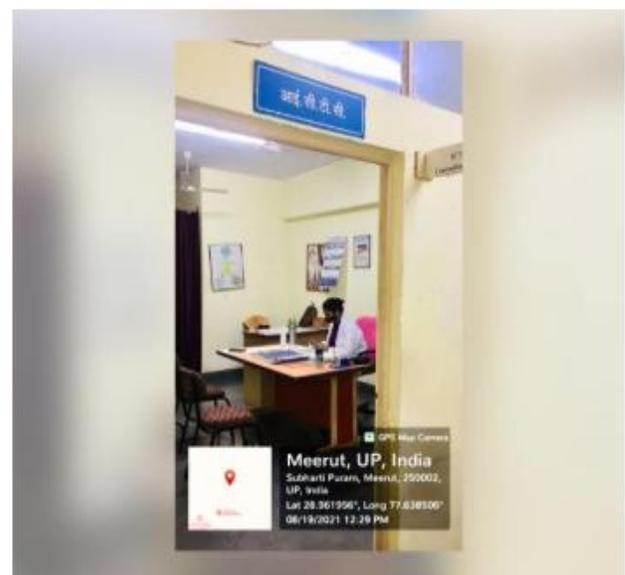


**Radiodiagnosis Lab**



**Catheterization Lab**



**Hepatitis Centre**



**Microbiology Laboratory**



**Integrated Counseling and Training Centre**

6. **Research Support Mechanisms**: The university provides seed funding, Ph.D. scholarships, conference grants, publication and patent incentives, and research excellence awards, promoting innovation and intellectual contribution.
7. **Industry-Academia Interface:**
   Emphasis on collaborative projects and technology incubation strengthens the linkage between academic research and industrial application, driving sustainable innovation.

**List of Collaborating Institutions**

| S. No | Name of Collaborating Institution | Weblink |
|---|---|---|
| 1. | Santosh Medical College & Hospital Ghaziabad (UP) | SANTOSH — Deemed to be University <br> https://www.santosh.ac.in/ |
| 2. | King George Medical University, Lucknow (UP) | https://www.kgmu.org/ |
| 3. | Umalok College of Nursing, Meerut (UP) | https://www.careers360.com/colleges/umalok-college-of-nursing-meerut |
| 4. | GMS College of Nursing, Amroha (UP) | GMS GROUP OF INSTITUTIONS <br> https://gmsgroupofinstitutions.com/ |
| 5. | Oldage Home Mawana, Meerut | https://m.facebook.com/people/Thts-old-age-home/100006824131030/ |
| 6. | Social Development Foundation | SDF <br> https://www.sdfbd.org/ |

| | | |
|---|---|---|
| 7. | Society of Midwives-India (SOMI) |  http://www.midwivesindia.com/ |
| 8. | Govind Ballabh Pant Hospital, New Delhi |  https://gbpant.delhi.gov.in/ |
| 9. | Dabur Research Foundation, Sahibabad, U.P. |  DABUR RESEARCH FOUNDATION https://www.daburresearch.in/ |
| 10. | Exposys data labs | https://www.exposysdata.com/ |
| 11. | University of Michigan |  https://umich.edu/ |
| 12. | CETPA Infotech Pvt. Ltd. | CETPA TRAINING \| RECRUITMENT \| DEVELOPMENT A CMMI Level 5 Company https://www.cetpainfotech.com/ |
| 13. | MSME | सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES https://msme.gov.in/ |
| 14. | YHILLS | YHills Learning Beyond Expectations https://yhills.com/ |

8. **Promotion of Innovation Culture:** The University has established a comprehensive Intellectual Property Rights (IPR) and Consultancy Policy to promote research, innovation, and equitable revenue sharing between individuals and the institution. The IPR policy provides a clear framework for IP ownership, management, commercialization, confidentiality, and conflict resolution, ensuring transparency and responsible utilization of research outcomes. It fosters awareness of intellectual property concepts and encourages ethical and innovative practices through regular capacity-building initiatives. Complementing this, the Consultancy Policy covers individual, departmental, and institutional consultancy, as well as testing, evaluation, and sample analysis, with a well-defined revenue-sharing mechanism to ensure accountability. To strengthen IP generation and consultancy awareness across disciplines—Medicine, Dentistry, Pharmacy, Nursing, Engineering, Management, and others—the university conducted 93 training and capacity-building programs during the year, reinforcing its commitment to innovation and sustainable research culture under SDG 9 (Industry, Innovation, and Infrastructure).

# C. Research and Development

## 1. Grants for Research Projects / Clinical Trials Sponsored by Non-Government Sources

- The Consultancy Policy promotes collaboration with industries, corporate houses, and professional associations, encouraging externally sponsored research and consultancy projects.
- The Central Research and Incubation Center (CRIC) facilitates industry–academia partnerships, enabling funding and incubation support for applied and interdisciplinary research.

## 2. Grants for Research Projects / Clinical Trials Sponsored by Government Funding Agencies

- The University Research Council (URC) oversees and supports proposals submitted to national and state-level funding bodies, ensuring compliance and performance monitoring.
- Dedicated budgetary allocations for R&D strengthen the university's eligibility and capacity to attract government-sponsored research projects.

## 3. Ratio of Research Projects / Clinical Trials per Teacher Funded by Government / Industry / Non-Government Agencies

- The structured research policy, along with seed funding for faculty, encourages every teacher to engage in research projects, improving the faculty-to-project ratio.
- Continuous training, workshops, and mentorship programs enhance research proposal writing and project acquisition capabilities among faculty.

## 4. Number of Patents / Copyrights Published / Awarded / Technologies Transferred

- The IPR Policy ensures systematic management, protection, and commercialization of intellectual property, leading to patents and copyrights.
- The university has published 190 patents, showcasing its strong culture of research, innovation, and technology development. This achievement reflects its commitment to advancing SDG 9 – Industry, Innovation, and Infrastructure.

## 5. Number of Research Papers per Teacher in Indexed Journals (Scopus / Web of Science / PubMed)

- Research promotion through modern laboratories, funding support, and incentives for publications enhances the number of peer-reviewed papers.
- The CRIC and URC encourage high-quality research dissemination through recognized and indexed journals, improving overall publication output.

## D. Industry Collaboration

1. **Integration of Industry Exposure in Curriculum:**

   The University promotes field visits, research projects, industry internships, and community placements to bridge the gap between academia and industry, fostering innovation and practical learning. Around 7,977 students (90%) participated in field visits, industrial tours, research projects, and internship programs, gaining real-world insights into industrial and healthcare operations.

2. **Sector-Specific Field Engagement:**

   Regular visits to Primary Health Centers (PHCs), Urban Health Centers (UHCs), Community Health Centers (CHCs), and District Hospitals enhance students' understanding of healthcare infrastructure in urban and rural settings. Additional exposure through visits to Anganwadi centers, senior citizen homes, correctional facilities, etc., ensures holistic community-based learning across Medicine, Dental Science, Nursing, AYUSH, Law, and Education disciplines.

3. **Strategic Industry Collaborations:**

   Collaborations with Dabur Research Foundation, KPS Clinical Services Pvt. Ltd., and Sun Pharmaceuticals Ltd., CETPA INFOTECH provide opportunities for research, innovation, and industrial internships, strengthening university-industry linkage.

4. **Academic and Research Partnerships:**

   MoUs with reputed academic institutions such as Jamia Hamdard University, Rajiv Gandhi Law University, and Astitva Foundation support research projects and student exchange programs that promote innovation and interdisciplinary learning.

5. **International Collaborations for Innovation Exchange:**

   Global partnerships with Johns Hopkins University (USA), Dhammachai International Research Institute (Australia), and Dong Bang Buddhist University (South Korea) promote faculty and student exchanges, fostering cross-border collaboration in research, technology, and innovation.

6. **Outcome:**
   These initiatives significantly contribute to building resilient infrastructure, promoting inclusive and sustainable industrialization, and fostering innovation, aligning with the objectives of SDG 9.

## E. CAPACITY BUILDING AND AWARENESS

The University actively promotes innovation and academic excellence by organizing professional development and training programs for teaching and non-teaching staff, thereby strengthening institutional capacity and fostering innovation in alignment with SDG 9 – Industry, Innovation, and Infrastructure. During the academic year, a total of 524 professional development and administrative training programs were organized, including continuing education, entrepreneurship development, and professional skill enhancement programmes. Furthermore, 331 teachers were provided with financial support to attend conferences, workshops, and for membership in professional bodies, enabling active participation in national and international academic forums.

Additionally, 679 teachers successfully completed Faculty Development Programmes (FDPs), including online Orientation, Induction, Refresher, and Short-Term Courses, ensuring continuous professional growth and promoting a culture of research, innovation, and academic excellence within the University.

# UNIVERSITY FACULTY DEVELOPMENT CELL

**SWAMI VIVEKANAND SUBHARTI UNIVERSITY Meerut**
UGC Approved | NAAC (A)
AN ISO 21001: 2018 ORGANIZATION

OFFICE OF THE REGISTRA
**Gp Capt M Yakoob**
M-in-D (Retd.), M.Tech.
REGISTRAR
registrar@subharti.org

Ref. No.: U-158/SVSU/2024/1454

Dated: 21.08.2024

## NOTIFICATION

In partial modification to earlier notification Ref. No. U-158/SVSU/2023/1075 dated 02.12.2023, the Hon'ble Vice-Chancellor is pleased to reconstitute University Faculty Development Cell. The composition of Cell is as under

### University Faculty Development Cell (UFDC)

| Hon'ble Vice Chancellor | Patron-In-Chief |
|---|---|
| Dr. R. K. Ghai, Dean- Faculty of Management & Commerce and Director- AVGSCMC | Chairman/ Convener |

**Members/ Coordinators:**

| Name | Department/ College/ Faculty |
|---|---|
| Dr. Anand Kumar Shukla, Professor | Dept. of Pharmacology, SMC |
| Dr. Manish Kumar Pathak, Prof. & HOD | Dept. of Pharmaceutical Chemistry, Pharmacy College |
| Dr. Mayur Kaushik Prof. & HOD | Dept. of Periodontology, SDC |
| Dr. Anoj Raj, Prof. & HOD | Deptt. of Education, FOE |
| Dr. Nitin Tyagi, Professor | ECE Department, SITE |
| Dr. Padma Misra, Professor | AVGSCMC, FOMC |
| Dr. Reena Bishnoi, Professor | Law College |
| Dr. Ashwani Kumar, Asso. Professor | FOS |
| Dr. Javed Khan, Asso. Professor | Department of Library and Information Science, FASS |
| Dr. Manju Adhikari, Asso. Professor | Physical Education, FOE |
| Dr. Raj Kumar Sharma, Asso. Professor | Physiotherapy College |
| Dr. Saroj Rani, Asso. Professor | Nursing College |
| Dr. Seema Sharma, Asso. Professor & HOD | Deptt. of Language, FASS |
| Dr. Sonal Bhardwaj, Asso. Professor | SCFF |
| Dr. Ankit Srivastava, Asst. Professor | Hotel Management, FOMC |
| Dr. Mumtaz Sheikh, Asst. Professor | Deptt. of Education, FOE |
| Dr. Niraj Nayan Rishi, Asst. Professor | Naturopathy & Yogic Sciences |
| Dr. Neetu Yadav, Asst. Professor | Home Science, FASS |
| Dr. Preeti Singh, Asst. Professor | Journalism & Mass Communication, FASS |
| Er. Sandeep Gupta, Asst. Professor | Polytechnic College |
| Dr. Gaurab Kumar Sharma, Associate Professor, AVGSCMC - Member- Secretary | |

By the order of the Hon'ble Vice Chancellor.

Registrar 21.08.2024

Copy forwarded for information & necessary action;
- Hon'ble Vice-Chancellor
- Chief Executive Officer
- Pro Vice-Chancellor
- Convener-UFDC
- Deans/Head of the Institutions/HODs/All Concerned Members

Registrar 21.08.2024

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# Conclusion

The University has prioritized the development of robust infrastructure to support advanced learning, research, and innovation, forming the backbone of its efforts toward SDG 9 – Industry, Innovation, and Infrastructure. State-of-the-art laboratories, research centers, and academic facilities enable students and faculty to engage in cutting-edge research, experimentation, and skill-building activities. During the academic year 2023–2024, approximately 7,977 students (90%) participated in industrial visits, research projects, and internships, gaining hands-on experience and bridging the gap between academia and industry.

To promote innovation and research, the University organized 524 professional development and administrative training programs, with 679 faculty members completing Faculty Development Programmes (FDPs), and 331 teachers receiving financial support to attend conferences, workshops, and professional body memberships. Strong industry and academic collaborations with organizations such as Dabur Research Foundation, Sun Pharmaceuticals, KPS Clinical Services, Jamia Hamdard University, Rajiv Gandhi Law University, and international institutions like Johns Hopkins University (USA) and Dong Bang Buddhist University (South Korea) foster joint research, innovation projects, and global knowledge exchange.

By encouraging research publications, patents, intellectual property creation, and entrepreneurship, alongside continuous capacity building for faculty and staff, the University strengthens both technological and human capital. These integrated initiatives ensure resilient infrastructure, sustainable industrial growth, enhanced research and innovation, and a skilled workforce, collectively fulfilling the objectives of SDG 9 in a comprehensive and impactful manner.

The objectives of Swami Vivekanand Subharti University, in alignment with the United Nations Sustainable Development Goal (UNSDG) - 9, along with the University's contributions towards achieving these objectives, are outlined below:

| UNSDGs and University's Objective | University's Contribution Towards Achieving its Objectives |
|---|---|
| **SDG 9: Industry, Innovation, and Infrastructure**<br><br>University Objective:<br>To strengthen the Research and Innovation ecosystem, promote collaborations with industries, and develop resilient and sustainable campus infrastructure using innovative, eco-friendly technologies. | **Faculty of Medicine -**<br>• Operates Subharti Hospital, a major healthcare infrastructure hub providing education, research, and patient care.<br>• Promotes biomedical innovation, medical device development, and telemedicine projects for digital healthcare advancement.<br>**Faculty of Dental Sciences -**<br>• Implements digital dentistry innovations, including CAD-CAM technology and prosthodontics research.<br>• Conducts community outreach through mobile dental units, strengthening healthcare infrastructure accessibility.<br>**Faculty of Nursing -**<br>• Produces highly skilled healthcare professionals trained in modern medical technologies and e-health systems.<br>• Promotes health informatics and digital healthcare practices for sustainable medical infrastructure development.<br>**Faculty of Allied Health Sciences -** |

- Develops innovative wellness technologies and supports health-based start-ups rooted in indigenous knowledge systems.

**Faculty of AYUSH -**

- Integrates traditional Indian healthcare practices with modern scientific research.

**Faculty of Engineering & Technology -**

- Leads innovation through product development labs, robotics and automation units, and AI–IoT-based research projects.
- Encourages students to participate in Smart India Hackathon and national-level innovation challenges.
- Focuses on prototype development, patent generation, and technology transfer initiatives.
- Conducts industrial training programs and skill enhancement workshops in partnership with leading companies.

**Faculty of Pharmacy -**

- Conducts pharmaceutical and drug innovation research in collaboration with industry partners.
- Promotes start up culture in formulation design, nutraceuticals, and quality assurance.
- Supports innovation through modern laboratories and research in pharmacognosy and pharmacology.

**Faculty of Law -**

- Promotes policy research, innovation management, and socio-legal infrastructure development.

**Faculty of Science -**

- Advances scientific research and innovation in biotechnology, materials science, nanotechnology, and environmental science.
- Provides hands-on experience in instrumentation, data analytics, and laboratory research, promoting technology-led solutions.

**Faculty of Education -**

- Conducts research on inclusive governance, sustainable industry policies, and educational innovation.

**Faculty of Fine Arts -**

- Drives creative innovation in visual arts, digital design, and cultural production.
- Contributes to the growth of creative industries and cultural infrastructure through exhibitions and design projects.

**Faculty of Management and Commerce -**

- Facilitates industrial collaboration and entrepreneurial capacity-building.
- Organizes business innovation workshops and training on sustainable industrial growth and financial management.

**College of Hotel Management -**

- Focuses on sustainable tourism infrastructure and eco-friendly hospitality practices.
- Trains students in resource-efficient hotel operations and green tourism entrepreneurship.

**Faculty of Arts and Social Sciences -**
- Strengthens communication infrastructure with digital media labs, production studios, and e-learning innovation.
- Conducts projects in digital storytelling, social media ethics, and information dissemination for community development.

**University –wide Initiatives -**
- A state-of-the-art campus spanning over 250 acres, featuring advanced laboratories, smart classrooms, high-speed Wi-Fi, and green-certified buildings.
- Houses solar power systems, water recycling plants, and energy-efficient infrastructure, aligned with sustainable development practices.
- Developed ICT-enabled teaching–learning systems, including a robust Learning Management System (LMS), digital libraries, and smart assessment platforms for seamless education delivery.
- Ensures universal accessibility through ramps, elevators, and PwD-friendly facilities, supporting inclusive infrastructure development.
- Established the Subharti Incubation and Innovation Centre to nurture start-ups, innovation, and entrepreneurship across all faculties.
- Recognized as a Mentor Institute under the Institution's Innovation Council (IIC), Ministry of Education, and Government of India.
- Organizes innovation hackathons, prototype competitions, and interdisciplinary research projects to foster creativity and problem-solving.
- Promotes patent filing, Intellectual Property Rights (IPR) workshops, and research commercialization for faculty and students.
- Encourages publications in Scopus, and indexed international journals, contributing to global knowledge exchange.
- Maintains strong MoUs with industries, R&D organizations, and professional bodies for joint projects, internships, and skill training.
- Implements AICTE IDEA Lab and Atal Innovation Mission initiatives to promote hands-on innovation and product development.
- Conducts industry-academia interaction programs, entrepreneurship conclaves, and expert lectures to bridge academic learning with industrial needs.
- Runs skill-based programs aligned with NSDC, Skill India Mission, and Atmanirbhar Bharat Abhiyan, empowering youth with employable and entrepreneurial skills.
- Equipped with advanced laboratories supporting research in engineering, medical sciences, pharmacy, and life sciences.

- Hosts Centres of Excellence in Artificial Intelligence, Renewable Energy, Biotechnology, and Sustainable Development.
- The Central Instrumentation Facility provides interdisciplinary research support, data analytics, and industrial consultancy services.
- Implements a robust Start-Up and Incubation Policy offering seed funding, mentorship, IP support, and networking opportunities for student innovators.
- Operates paperless e-office systems, digital repositories, and online administrative platforms for efficiency and sustainability.
- Encourages eco-friendly campus development through rainwater harvesting, solar lighting, waste segregation, and recycling initiatives.
- Prioritizes resilient, inclusive, and low-carbon infrastructure planning to ensure equitable access for all stakeholders.