

National Conference
on

**Antimicrobial Resistance:
Surveillance from Street to Hospital
for Integrated Epidemiology
and Local Defense**
(AMR-SHIELD 2026)

19-21 March, 2026

VENUE

Main Auditorium
Mahayogi Gorakhnath University Gorakhpur
Arogya Dham, Balapar Road, Sonbarsa
Gorakhpur-273007, Uttar Pradesh

ORGANIZED BY
Faculty of Health and Life Sciences
Mahayogi Gorakhnath University Gorakhpur



MAHAYOGI GORAKHNATH UNIVERSITY GORAKHPUR
Arogya Dham, Balapar Road, Sonbarsa
Gorakhpur-273007, Uttar Pradesh

Mahayogi Gorakhnath University Gorakhpur

Established in 2021, Mahayogi Gorakhnath University Gorakhpur, is a dynamic and evolving institution committed to offering superior education, encouraging research excellence, and supporting the all-round growth of its students. Inspired by the vision of Shri Yogi Adityanath Ji, Honorable Chief Minister of Uttar Pradesh, the University is committed to nurturing intellectual growth, moral values, and professional excellence across diverse disciplines. Mahayogi Gorakhnath University Gorakhpur, is proudly recognized as the first private university in the Purvanchal region, marking a milestone in the advancement of higher education in Eastern Uttar Pradesh. It is established by the Uttar Pradesh Private Universities (Amendment) Ordinance, 2021 (U.P. Ordinance no. 4 of 2021) and recognized by University Grants Commission (India) under section 12(f) of its act. Mahayogi Gorakhnath University offers a wide range of undergraduate, postgraduate, diploma, and research programs in various fields, including Medicine, Ayurveda, Health and Life Sciences, Pharmaceutical Sciences, Nursing and Paramedical Sciences, Agriculture, Commerce, and Management. Mahayogi Gorakhnath University Gorakhpur takes pride in its highly qualified faculty members, who contribute significantly to academic excellence and student guidance. The institution is also focused on expanding its research footprint through collaborations, patents, and funded projects. Along with academic excellence, the university promotes social engagement through its vibrant NSS units and NCC wings, encouraging students to participate in community service, national integration, and activities that foster personality development.

Faculty of Health and Life Sciences

The Faculty of Health and Life Sciences started in the year 2022 with three departments, i.e. Biotechnology, Biochemistry and Microbiology. Forensic science department started under the faculty

in the year 2025. The Faculty of Health and Life Sciences is offering B.Sc., M.Sc. and Ph.D. programs in all four departments since its establishment. The B.Sc. programs in all three disciplines are run as per National Education Policy-2020. Currently, there are twenty-two faculty members in the Faculty of Health and Life Sciences. All the faculty members are highly qualified and research oriented. The Faculty of Health and Life Sciences organizes seminars, symposiums, workshops and conferences on a regular basis which keeps the students and faculty members updated in their own area of medical sciences and biotechnology. The faculty has received funds from DBT, DST & UPCST to conduct lecture series and seminar in past.

About the Conference

The National Conference on Antimicrobial Resistance: Surveillance from Street to Hospital for Integrated Epidemiology and Local Defense (AMR-SHIELD) is envisioned as a multidisciplinary platform to address the growing threat of antimicrobial resistance across community and clinical settings. The conference aims to bring together academicians, clinicians, microbiologists, public health professionals, policymakers, and young researchers to deliberate on AMR surveillance, transmission pathways, and containment strategies. By adopting “One Health” perspective, the conference emphasizes on the continuum of resistance from environmental and community sources to hospitals, highlighting the need for coordinated epidemiological approaches and locally relevant defense mechanisms.

CONFERENCE OBJECTIVES

- >To enhance understanding of the epidemiology of antimicrobial resistance from street to hospital settings.
- To discuss current and emerging surveillance tools for early detection and monitoring of AMR at local and regional levels.

- >To promote integration of clinical, environmental, and molecular data for effective AMR control strategies.
- To encourage development of locally adaptable antimicrobial stewardship and infection prevention policies.
- To foster interdisciplinary collaboration and capacity building among researchers, healthcare professionals, and public health stakeholders.

CONFERENCE HIGHLIGHTS

- Keynote Addresses:** Eminent scientists, policy makers and industry leaders will share their insights on the advancements in the field of AMR.
- Scientific Sessions:** Presentations by renowned researchers, policymakers and social workers on various topics to AMR and surveillance tools for early detection and monitoring of AMR.
- Oral Paper Presentation:** Best three oral presenters will be awarded with first, second and third prize for the best presentation and research work.
- Poster Presentations:** A platform for researchers and students to showcase their latest findings and engage in scientific discussions. Three prizes (first, second and third) will be given to the best poster presenters.
- Networking Opportunities:** Informal gatherings, networking sessions, and social events to facilitate interactions and collaborations among attendees.

WHO SHOULD ATTEND

- Researchers and scientists working in the fields of medical sciences/food microbiology/industrial microbiology/environmental microbiology/infectious diseases/epidemiology/

pharmacology/antimicrobial resistance.

- ⦿ Clinicians and healthcare professionals from hospitals, community health centres and laboratories involved in infection control and antimicrobial stewardship.
- ⦿ Academicians and students interested in advancing their knowledge of antimicrobial resistance, surveillance systems, and integrated epidemiology.
- ⦿ Pharmaceutical and biotechnology industry professionals involved in antimicrobial drug development and diagnostics.
- ⦿ Regulatory authorities and government agencies responsible for implementing AMR surveillance frameworks and healthcare guidelines.
- ⦿ Public health experts and policymakers engaged in shaping strategies for AMR containment, surveillance, and local defense.
- ⦿ Representatives from funding agencies and NGOs supporting research, surveillance, and interventions in antimicrobial resistance.



Join us at the National Conference on Antimicrobial Resistance: Surveillance from Street to Hospital for Integrated Epidemiology and Local Defense (AMR-SHIELD) and be part of a dynamic and knowledge-driven community to combat with Antimicrobial Resistance.

PROGRAM SCHEDULE

DAY 1 – Thursday, 19 March 2026

Theme: AMR Landscape, Surveillance Frameworks & One Health

Time	Session	Details
09:00 – 10:00	Registration	Registration & Welcome Tea
10:00 – 11:30	Inaugural Session	Opening Ceremony, Welcome Address, Conference Overview, Chief Guest Address, Release of Souvenir & Abstract Book, Vote of Thanks
11:30 – 12:15	Inaugural Keynote Lecture	Global and Indian AMR Burden: Current Trends, Risks, and Strategic Gaps
12:15 – 13:15	Technical Session I	One Health Approach to AMR: Human–Animal–Environment Interface as AMR reservoir
13:15 – 14:00	Lunch Break	
14:00 – 15:30	Technical Session II	AMR Surveillance Systems: National, Laboratory & Molecular Perspectives
15:30 – 15:45	High Tea	
15:45 – 17:00	Panel Discussion I	Strengthening AMR Surveillance from Community to Tertiary Care
17:00 – 18:00	Poster Session I	Surveillance, Environmental AMR & One Health Studies

DAY 2 – Friday, 20 March 2026

Theme: Clinical, Molecular & Community Dimensions

09:30 – 10:15	Plenary Lecture	Molecular Mechanisms of AMR and Emerging Superbugs
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10:15 – 11:45	Technical Session III	Clinical AMR & Hospital Surveillance
11:45 – 12:00	High Tea	
12:00 – 13:30	Technical Session IV	Diagnostics & Innovations in AMR Detection
13:30 – 14:15	Lunch Break	
14:15 – 15:45	Technical Session V	Food Systems as Pathways of AMR Transmission
15:45 – 16:00	High Tea	
16:00 – 17:15	Panel Discussion II	From Prescription to Pollution: Controlling AMR Beyond Hospitals
17:15 – 18:15	Oral Presentation	Clinical AMR, Diagnostics & Molecular Research

DAY 3 – Saturday, 21 March 2026

Theme: Policy, Innovation & Local Defense Strategies		
09:30 – 10:15	Plenary Lecture	National Action Plan on AMR: Progress, Challenges & Way Forward
10:15 – 11:45	Technical Session VI	Therapeutic Strategies & Alternatives to Antibiotics
11:45 – 12:00	High Tea	
12:00 – 13:15	Technical Session VII	Plant Health & AMR: Safeguarding Agriculture and Food Security
13:15 – 14:00	Lunch Break	
14:00 – 15:30	Concluding Panel & Roundtable	AMR-SHIELD Roadmap: From Evidence to Action
15:30 – 16:30	Valedictory Session	Conference Summary, Resolutions, Awards, Valedictory Address & Vote of Thanks

SESSION 1

One Health Approach to AMR: Human-Animal-Environment Interface as AMR Reservoir

- ❖ Wastewater, sewage and soil as hotspots for resistance gene exchange.
- ❖ Understanding the role of the environment as an AMR Reservoir and tracking the AMR transmission through environmental pathways.
- ❖ Environmental surveillance and integrated strategies for AMR containment at the human-animal-environment interface.

SESSION 2

AMR Surveillance Systems: National, Laboratory & Molecular Perspectives

- ❖ Combating antimicrobial resistance and protecting the miracle of modern medicine.
- ❖ Strengthening regional capacity for antimicrobial resistance surveillance.

SESSION 3

Clinical AMR & Hospital Surveillance

- ❖ Point prevalence survey of antimicrobial use (PPS-AMU) at hospital level.
- ❖ Implementing surveillance data into clinical decision making.
- ❖ Integrating hospital surveillance data into national and global AMR monitoring networks.

SESSION 4

Diagnostics & Innovations in AMR Detection

- ❖ **Technological advancements in AMR detection:** Next Generation Sequencing (NGS), Metagenomics, CRISPR-based diagnostics, Biosensing techniques, Digital tools and AI.

- ❖ **Novel therapeutics and strategies:** Biomarker discovery for early infection detection, combination therapies, novel drug solutions and vaccines.

SESSION 5

Food Systems as Pathways of Antimicrobial Resistance Transmission

- ❖ AMR in foodborne pathogens and its public health implications.
- ❖ Surveillance of AMR in food products and role of food processing, packaging and hygiene in controlling resistant microbes.

SESSION 6

Therapeutic Strategies & Alternative to Antibiotics

- ❖ **Beyond the Antibiotic Era:** Innovative strategies and alternatives to combat the global challenge of antimicrobial resistance.
- ❖ **Novel Non-Antibiotic Therapeutics:** Bacteriophage therapy, Antimicrobial peptides (AMPs), Immunomodulatory agents and host directed therapies, Anti-virulence strategies.
- ❖ **Innovations in AMR:** Probiotics & synbiotics, microbiome engineering, nanobiotechnology based antimicrobials, phytotherapy and natural products.

SESSION 7

Plant Health & AMR: Safeguarding Agriculture and Food Security

- ❖ Plant-associated microbiomes as reservoirs of resistance genes and AMR surveillance in phytopathogens affecting global food chain.
- ❖ Impact of pesticide and antimicrobial use in crop production and sustainable plant protection strategies to reduce resistance pressure.

ORGANIZING COMMITTEE

Patron

Shri Yogi Adityanath

Hon'ble Chief Minister, Government of Uttar Pradesh
Chancellor, Mahayogi Gorakhnath University Gorakhpur

Chairman

Dr. Surinder Singh

Vice Chancellor, Mahayogi Gorakhnath University Gorakhpur

Convener

Prof. (Dr.) Sunil Kumar Singh

Dean, Faculty of Health and Life Sciences

ORGANIZING SECRETARIES

Dr. Rashmi Shahi

Assistant Professor
Department of Microbiology
Faculty of Health & Life Sciences

Dr. Prerna Aditi

Assistant Professor
Department of Biochemistry
Faculty of Health & Life Sciences

ORGANIZING COMMITTEE MEMBERS

- **Dr. Amit Kumar Dubey**
Asst. Professor, Faculty of Health and Life Sciences
- **Dr. Dhirendra Kumar Singh**
Asst. Professor, Faculty of Health and Life Sciences
- **Dr. Kiran Kumar A.**
Asst. Professor, Faculty of Health and Life Sciences
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- **Mr. Anil Kumar Mishra**
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- **Mr. Dhananjai Pandey**
Tutor, Faculty of Health and Life Sciences
- **Ms. Simran Yadav**
Tutor, Faculty of Health and Life Sciences
- **Ms. Khushboo Prajapati**
Tutor, Faculty of Health and Life Sciences
- **Mr. Anil Kumar Sharma**
Tutor, Faculty of Health and Life Sciences

REGISTRATION FEE DETAILS

Category for the Registration Fee	Early Bird Registration (Upto 15 th February, 2026)	Late Bird Registration (Upto 10 th March, 2026)	On Spot Registration
Faculty/Scientists/Industry Persons	₹ 2,000/-	₹ 2,500/-	₹ 3,000/-
Research Scholar/PhD Students	₹ 1,500/-	₹ 2,000/-	₹ 2,500/-
UG and PG Students	₹ 800/-	₹ 1000/-	₹ 1500/-

Note : Registration Fee include - Registration kit, food and accommodation.

Last date of abstract submission : February 15, 2026

Start date of registration : January 20, 2026

Link of conference registration

<https://amrshield.mgug.ac.in/>

ORAL PRESENTATION AWARD

Three best oral presentation award will be given based on quality of research paper and presentation.

- First Prize:** Certificate with memento.
- Second Prize:** Certificate with memento.
- Third Prize:** Certificate with memento.

POSTER PRESENTATION AWARD

Three best oral presentation award will be given based on quality of research paper and presentation.

- First Prize:** Certificate with memento.
- Second Prize:** Certificate with memento.
- Third Prize:** Certificate with memento.

CONFERENCE SECRETARIES

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MAHAYOGI GORAKHNATH UNIVERSITY GORAKHPUR



COURSES

- Bachelor of Medicine and Bachelor of Surgery (MBBS)
- Bachelor of Ayurvedic Medicine and Surgery (BAMS)
- GNM
- ANM (Auxiliary Nurse Midwives)
- Basic B.Sc. Nursing
- Post Basic B.Sc. Nursing
- M.Sc. Nursing
- Diploma in Lab Technician
- Diploma in Optometry
- Diploma in Anaesthesia and Critical Care Technician
- Diploma in Orthopedic and Plaster Technician
- Diploma in Emergency and Trauma care Technician
- Diploma in Dialysis Technician
- B.Sc. (Hons/Hons with Research) Biotechnology
- B.Sc. (Hons/Hons with Research) Biochemistry
- B.Sc. (Hons/Hons with Research) Microbiology
- B.Sc. (Hons/Hons with Research) Forensic Science
- B.Sc. Medical Biochemistry
- B.Sc. Medical Microbiology
- M.Sc. Biotechnology
- M.Sc. Medical Biochemistry
- M.Sc. Medical Microbiology
- M.Sc. Biochemistry
- M.Sc. Microbiology
- D.Pharm.
- B.Pharm.
- B.Pharm lateral entry (2nd year)
- Ph.D. Pharmacy
- B.Sc. (Hons) Agriculture
- BBA (Hons) Logistics
- Nurse Practitioner in Critical Care (Post Graduate Residency) Programme (NPCC)

NEW COURSES

2026-27

- Bachelor of Medical laboratory sciences
- Bachelor of Optometry
- Diploma in hospital record keeping
- M.Sc. (Ag) Agronomy
- M.Sc. (Ag) Horticulture (Vegetable Science)
- M.Sc. (Ag) Plant Pathology
- M.Sc. (Ag) Genetics & Plant Breeding
- MBA (Dual Specialization with HR, Finance, Marketing, IT, Operations & SCM, BI & DA)
- MBA in Agri-Business Management
- MBA in Pharmaceuticals Management
- MBA in Hospital Administration and Health Care Management
- Bachelor of Computer Applications (BCA)
- Master of Computer Applications (MCA)
- M.Sc. Forensic Science

Please Check University Website for More Information