



RSO-21st Century is organized every year at Rawalpindi Women University. This year's 2nd International conference of sciences is being organized to recognize the rapid pace of technological advancements, globalization, and societal changes that have transformed the landscape of science, requiring a fresh perspective to tackle complex challenges including combating with infectious diseases, climate change and its global impact. RSO-21st Century recognises the multidisciplinary nature of science, as today's complex problems require integrated approach and insights from multiple disciplines of science including Botany, Chemistry, Zoology, Physics, Mathematics, Statistics, and Computer Science. Therefore, this platform invites scientists, researchers, industry experts, academicians, and policy makers to develop a shared understanding of the revamped scientific outlook that encompasses the interdisciplinary nature of modern science and fosters innovation, collaboration, and social impact.

## Conference Themes

### BOTANY:

1. Plant Systematics, Biodiversity & Conservation
2. Bioinformatics
3. Plant Molecular Biology & Biotechnology
4. Plant Protection & Pest Control
5. Plant Ecology
6. Plant Microbe Interactions
7. Plant Physiology
8. Economic Botany

### CHEMISTRY:

1. Green Chemistry and Global Climate Change
2. Scope of Physical, Inorganic, Organic, Analytical and Biochemistry
3. Nanotechnology
4. 2-D Nanomaterials
5. Environmental Chemistry
6. Photocatalysis
7. Organic Scaffolds for medicinal and material chemistry
8. Dye sensitized solar cells Energy storage devices
9. Chemistry in agriculture and natural sciences

### CS & IT:

1. Data Science and Analytics
2. Image processing and pattern recognition
3. Natural Language Processing and semantic analysis
4. Internet of Things and Cloud computing
5. Augmented and Virtual Reality
6. Software Engineering
7. Graphics Simulations and Animations
8. Cyber security and networking

### MATHEMATICS:

1. Fluid Mechanics
2. Applied & Pure Mathematics
3. Gravitation and Cosmology
4. Mathematical Biology
5. Modelling and Simulation
6. Cryptography
7. Computational Fluid Dynamics
8. Fractional Calculus

### PHYSICS:

1. Solid State Physics
2. Nano materials
3. Functional Materials
4. Energy Materials
5. Magnetic Materials
6. Optical Materials
7. Theoretical and Particle Physics
8. Plasma Physics

### STATISTICS:

1. Design of Experiments
2. Multivariate Analysis
3. Survey Sampling
4. Big Data & High-Dimensional Data Analysis
5. Data Science Machine Learning
6. Bayesian Statistics
7. Time Series Forecasting
8. Applied Statistics

### ZOOLOGY:

1. Endocrinology
2. Microbiology
3. Biochemistry & Biotechnology
4. Genetics & Evolution
5. Wildlife
6. Marine Biology
7. Reproductive Physiology
8. Aquaculture & Fisheries



## CHIEF ORGANIZER

Prof. Dr. Anila Kamal  
Vice Chancellor,  
Rawalpindi Women University, Rawalpindi.

### Organizers

Dr. Mamoona Munir (Botany)  
Dr. Hina Naeem (Chemistry)  
Dr. Amber Sarwar (CS & IT)  
Dr. Shagufta Ejaz (Mathematics)  
Dr. M. Naveed ul Haq (Physics)  
Dr. Saba Riaz (Statistics)  
Dr. Rabea Ejaz (Zoology)  
Dr. Motsim Billah (ORIC)  
Dr. Rayna Sadia (Psychology)

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Dr. Tunzeel Iqbal (Chemistry)  
Ms. Maria Mahmood (CS & IT)  
Dr. Bushra Parveen (Physics)  
Dr. Musarrat Ijaz (Statistics)  
Dr. Shazia Shams (Zoology)

## Keynote Speakers

### Botany

**Prof. Dr. Joan Valles Xirau**  
*University of Barcelona, Spain*

**Prof. Dr. Azra Yasmin**  
*FJWU, Rawalpindi*

**Prof. Dr. Mushtaq Ahmad**  
*(Tamgah-i-Imtiaz)*  
*QAU, Islamabad*

**Prof. Dr. Tariq Mukhtar**  
*PMAS-Arid Agriculture, Rawalpindi*

### Chemistry

**Dr. Sultan B Sengel**  
*Eskisehir Osmangazi University, Turkey*

**Engr. Prof. Dr. Ahmed Shuja**  
*IIUI, Islamabad*

**Prof. Dr. Zia ur Rehman**  
*QAU, Islamabad*

### Zoology

**Prof. Dr. Allan E. Herbison**  
*University of Cambridge, UK*

**Prof. Dr. M. Jawad Hassan**  
*NUMS, Rawalpindi*

**Dr. Rashid Minhas**  
*Univeristy of Exter, UK*

**Prof. Dr. M. Irfan Khan**  
*IIUI, Islamabad*

**Prof. Dr. M. Ishtiaq Ali**  
*Qau, Islamabad*

### Mathematics

**Prof. Dr. Ali Akgul**  
*Siirt University, Turkey*

**Prof. Dr. Taswar Hayat**  
*QAU, Islamabad*

**Prof. Dr. Sohail Nadeem**  
*QAU, Islamabad*

### Physics

**Dr. Vladimir V. Shvarstman**  
*University of Duisburg-Essen, Germany*

**Prof. Dr. Kashif Sabeeh**  
*QAU, Islamabad*

**Dr. Syed Khurshid Hasnain**  
*COMSTECH, Islamabad*

### Statistics

**Prof. Jong-Min Kim**  
*University of Minnesota-Morris, Morris*

**Prof. Dr. Tahir Mehmood**  
*NUST, Islamabad*

### CS & IT

**Prof. Dr. Noor Zaman Jhanjhi**  
*Taylor's University, Malaysia*

**Prof. Dr. M. Shaheen Khan Tanoli**  
*Foundation University, Islamabad*

**Prof. Dr. Yaser Hafeez**  
*PMAS-Arid Agriculture University*

## Revamped Scientific Outlook of 21st Century, 2023 (RSO-2023)



### IMPORTANT DATES

CALL FOR ABSTRACT: August 20<sup>th</sup>, 2023

Abstract Submission Deadline : September 14<sup>th</sup>, 2023

Abstract Decision: 1<sup>st</sup> Oct - 10<sup>th</sup> Oct, 2023

Early Bird Registration Deadline : October 15<sup>th</sup>, 2023



Register Now !

<https://tinyurl.com/mry5jhbv>

### Early Bird Registration

RWU Faculty	PKR-1500-	Non-RWU Faculty	PKR-2000-
RWU Students	PKR-1000-	Other Students	PKR-1200-

### Normal Registration

RWU Faculty	PKR-2000-	Non-RWU Faculty	PKR-2500-
RWU Students	PKR-1200-	Other Students	PKR-1500-

### FOR QUERIES

Contact Conference Secretaries

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## Revamped Scientific Outlook of 21st Century, 2023 (RSO-2023)



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## Glimpses of 1<sup>st</sup> International Conference, 2022



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