University of Kashmir, Srinagar

Minutes of the meeting of Board of Research Studies (BORS) in Physical & Mathematical Sciences held on 16-07-2024 at 10:30 A.M. in the Committee Room of the Administration Block.

Present

1. *Prof. Nilofer Khan*   (*In the Chair*)
   Vice-Chancellor

2. *Prof. Farooq A. Masoodi*
   Dean Academic Affairs

3. *Prof. M.S. Bhat*
   Dean Research

4. *Prof. Manzoor Ahmad Malik*
   Dean, School of Physical & Mathematical Sciences

5. *Prof. Naseer Iqbal*
   Registrar

6. *Head, Deptt. of Chemistry*
7. *Head, Department of Statistics;*
8. *Director, South Campus*
9. *Head, Department of Mathematics;*
10. *Head, Department of Physics*

The Assistant Registrar, (Research) was also present.

At the outset, Dean Research welcomed the members and apprized the members that due attention has been taken care in all forms and levels with regard to research and Dean has emphasized that research calendar should be adhered and should be effective in full. Furthermore, Dean Research has informed that the conduct of methodology/course work to be conducting in the time bound manner and also informed the review committee of statutes has been notified and the committee will submit its report to the concerned body/ Vice-Chancellor. The Dean Research requested the Vice-Chancellor for her valuable remarks, the Vice-Chancellor desired and thrust to do the best efforts about projects which should be effective for all purposes. Moreover, Vice-Chancellor has desired that research calendar should be followed in letter and spirit and also said that Pre-BORS of concerned Schools have an effective and essential role regarding the oversee of the objectives and titles of the scholars thoroughly. She added that there should be no delay while proposing panel of experts/viva-voce and declaration of results of Ph.D scholars. The Vice-Chancellor further added that during the research theory and methodology components should be at par with National/International level. Dean of the concerned Schools should certify that the rules and regulations have been followed while submitting every documents with regard to research. It is also agreed in the BORS that there should be standard publication at every Departmental level/scholars level.

It also agreed that a Committee has been constituted for settlement of payments to the paper setters of methodology (paper):-

1. Dean of the School concerned;
2. Registrar
3. Controller of Examinations
4. Joint Registrar, Budget & Creation

To template a format for title/synopsis, there should be a format for marks cards at Dean Research level. Credits and Methodology, Theory and thesis.

Subsequently agenda was taken up for discussion.

Item No.01 Perusal of the action taken report of the last meeting of the Board of Research Studies in Physical and Mathematical Sciences held on 25-08-2023, pertaining to the matters relating to the Deptts. falling under School of Physical & Mathematical Sciences.

Resolved that the action taken report on the minutes of the last meeting of BORS in Physical and Mathematical Sciences held on 25-08-2023, be placed on record.

Item No. 02 Confirmation of minutes of the last meeting of the Board of Research Studies in Physical and Mathematical Sciences held on 25-08-2023, pertaining to the matters relating to the Deptts. falling under School of Physical & Mathematical Sciences.

Resolved that the minutes of the last meeting of the Board of Research Studies in Physical and Mathematical Sciences held on **25-08-2023, be confirmed.**

Item No.03 Considered the curriculum vitaes of eight Teachers for grant of recognition as co-guides.

Resolved that the recognition of following teachers to guide Ph. D research scholars in the disciplines shown against each, be recognized as co-supervisors:-

S. No	Name of the Teacher/Scientists/ Doctors	Subject/ Discipline
01	Dr. Javid Ahmad Reshi Assistant Professor Deptt. of Statistics Govt. Degree College Boys, Anantnag	Statistics
02.	Dr. Waheed Ahmad Khanday Assistant Professor Deptt. of Chemistry S. P. College, Sgr	Chemistry
03	Dr. Imtiyaz Ahmad Wani Assistant Professor, Amar Singh College, Sgr	Chemistry
04.	Dr. Qudsia Gani Assistant Professor Govt. College for Women, M.A. Road, Sgr.	Physics
05.	Dr. Fayaz Ahmad Najar Assistant Professor Deptt. of Physics S. P. College, Sgr	Physics
06.	Dr. Tariq Ahmad Naikoo Associate Professor Mathematics Islamia College of Science & Commerce	Mathematics
07.	Dr. Mushtaq Ahmad Shah Deptt. of Mathematics JKIMS, Amar Singh College	Mathematics
08.	Dr. Bilal Ahmad Chat Assistant Professor Mathematics Islamic University of Science & Technology, Awantipora	Mathematics

Item

No.04 Consideration of the grant of registration in favour of the candidates listed in Annexure A to D for pursuit of Ph.D/I-Ph.D programme on whole-time/part-time basis as detailed in the respective annexures to the main agenda against each candidate, in the following disciplines of the School of Physical & Mathematical Sciences:

A. **Statistics**   B. **Mathematics**   C. **Mathematics** (South Campus)   D **Physics**

Resolved that the candidates enlisted in annexures A to D of the Departments falling in the School of Physical & Mathematical Sciences be registered for pursuit of Ph.D/I-Ph. D programmes on whole-time/part-time basis subject to the fulfillment of conditions (if any) indicated against each in the remarks column of the respective annexure.

Meetings concluded with thanks to the chair.

Approved.

Sd/-
Dean Research

Sd/-
Vice-Chancellor

UNIVERSITY OF KASHMIR, SRINAGAR
OFFICE OF THE DEAN RESEARCH

No: F (BORS-Phy & Mathematical Scs)KU/24
Dated: November 21, 2024

KU2024-DRG-Lttr-22673

➢ Copy of the approved minutes alongwith statement of particulars of the candidates forwarded to the HOD, _____ for necessary action. Conditions if any contained in the remarks column of the statements may be fulfilled. After verification of the certificates/required documents/submission of registration forms/deposition of admission fee and submission of joining reports, the documents may please be forwarded for reckoning of the registration of the scholars. Before joining eligibility of the candidates for part-time registration is to be checked and concerned allowed to join only after production of permission and leave sanction order from the parent Department.

O/C

Assistant Registrar
(Research)
30/11/24

Annexure –A

Department: Statistics

S. No	Name of the Scholar	Name of the Supervisor/ Co-Supervisor	Proposed Topic of Research	Approved Topic of Research	Remarks
01	Ms. Nuzhat Ahad **Integrated Ph.D** Whole-time Reg. No.1648-SUM-2014	Dr. Sheikh Parvaiz Ahmad Associate Professor Dr. Javaid Ahmad Reshi Assistant Professor GDC, Pulwama (Co-Supervisor)	Characterization and estimation of extended Maxwell-Boltzmann and power function distributions	Characterization and estimation of extended Maxwell-Boltzmann and Power function distributions	
02	Mr. Aadil Ahmad Mir **Integrated Ph.D** Whole-time Reg. No.53870-A-2015	Dr. Sheikh Parvaiz Ahmad Associate Professor	Extended Rayleigh distribution: properties, estimation and applications	Extended Rayleigh distribution: properties, estimation and applications	

Annexure-B

Department: Mathematics (Main Campus)

S. No.	Name of the Scholar	Name of the Supervisor/ Co-Supervisor	Proposed Topic of Research	Approved Topic of Research	Remarks
01.	Mr. Amir Rehman Najar NET-JRF **Ph.D** Whole-time Reg. No.73279-ANG-2013	Prof. S. Pirzada	On the adjacency eigenvalues of graphs and Turán type problems	On the adjacency eigenvalues of graphs and Turán type problems	
02.	Mr. Tanveer Ahmad Bhat NET-JRF **Ph.D** Whole-time Reg. No.11912-KC-2010	Dr. Nisar Ahmad Rather Ex-Professor	On the distribution of zeros and operator preserving polynomial inequalities	On the distribution of zeros and operator preserving polynomial inequalities	
03.	Mr. Naseer Ahmad Wani NET-JRF **Ph.D** **NET** Whole-time Reg. No.28955-PC-2013	Dr. Nisar Ahmad Rather Ex-Professor	On extremal problems and zero inclusion regions of regular polynomials with quaternionic variable	On extremal problems and zero inclusion regions of regular polynomials with quaternionic variable	

04.	Mr. Mir Riyaz Ul Rashid **GATE** **Ph.D** Whole-time Reg. No.48129-S-2013	Prof. S. Pirzada	On the distribution of eigenvalues in signed graphs	On the distribution of eigenvalues in signed graphs	
05.	Mr. Ashiq Hussain Bhat **NET/SET** **Ph.D** Whole-time (In-service) Reg. No.20902-SP-2004	Dr. Mohammad Abdullah Mir Associate Professor	On the Erdös-Lax inequality and the zeros of quaternionic polynomials	On the Erdös-Lax inequality and the zeros of quaternionic polynomials	
06.	Mr. Danish Rashid Bhat **Ph.D** Whole-time Reg. No.77364-ANG-2015	Dr. Nisar Ahmad Rather Ex-Professor Dr. Mohammad Abdullah Mir Associate Professor Deptt. of Mathematics (Co-Supervisor)	On Turán-type extremal problems and bounds for the zeros of a unilateral quaternionic polynomials	On Turán-type extremal problems and bounds for the zeros of a unilateral quaternionic polynomials	

07.	Mr. Arif Farooq Mir **Ph.D** Whole-time Reg. No.22712-G-2015	Prof. T. A. Chishti DDE Prof. Nisar Ahmad Lone JKIMS, Amar Singh College (Co-Supervisor)	Integration, asymptotic geometry and topology in Banach spaces	Integration, asymptotic structure and topology in Banach spaces	I. Topic modified. II. Objectives be devised as per modified topic.
08.	Mr. Wasim Ahmad Thoker **Ph.D** Whole-time Reg. No.13731-SC-2015	Dr. Mohammad Abdullah Mir Associate Professor	On Bernstein-type inequalities and zeros of a quaternionic polynomial	On Bernstein-type inequalities and zeros of a quaternionic polynomial	

Annexure-C

Department: Mathematics (South Campus)

S. No.	Name of the Scholar	Name of the Supervisor/ Co-Supervisor	Proposed Topic of Research	Approved Topic of Research	Remarks
01.	Mr. Sajad Ahmad Sheikh **Integrated Ph.D** **NET** (In-service candidate) Whole-time Reg. No.	Dr. Mohd Ibrahim Mir Assistant Professor	Probabilistic Approach to Distribution of Zeros and Extremal Problems of Random Polynomials	Probabilistic Approach to Distribution of Zeros and Extremal Problems of Random Polynomials	
02.	Ms. Jamina Banoo **Integrated Ph.D** Whole-time Reg. No. Nil	Dr. Mohd. Ibrahim Mir Assistant Professor	On the Zeros, Extremal Properties and Maximum Modulus Set for Polynomials	On the Zeros, Extremal Properties and Maximum Modulus Set for Polynomials	
03.	Mr. Khalid Fayaz **Integrated Ph.D** **NET** Whole-time Reg. No.41443-SP-2014	Prof. Mohd. Iqbal Bhat Dr. Hilal Ahmad Khanday Computer Science South Campus (Co-supervisor)	Convergence and stability of iterative schemes for variational inclusion problems	Convergence and stability of iterative schemes for variational inclusion problems	

| 04. | Ms. Mahak Majeed **Ph.D** Whole-time Reg. No.25142-AW-2011 | Prof. Mohd. Iqbal Bhat | Approximation solvability of variational inequalities involving semigroups of nonexpansive mappings | Approximation solvability of variational inequalities involving semigroups of nonexpansive mappings |
| 05. | Mr. Musadiq Shaheen Gojree **Ph.D** Whole-time Reg. No.38326-SP-2012 | Dr. Firdous Ahmad Shah Assistant Professor | Investigation of Hilbert Transforms in Higher-Dimensional Spaces | Investigation of Hilbert Transforms in Higher-Dimensional Spaces |

Annexure-D

Department: Physics

S. No.	Name of the Scholar	Name of the Supervisor/ Co-Supervisor	Proposed Topic of Research	Approved Topic of Research	Remarks
1.	Ms. Shazia Showket **Integrated Ph.D.** Whole-time Reg. No.8202-BW-2010	Dr. Ghulam Nabi Dar Associate Professor	Modelling and performance analysis of silicene nanoribbon based volatile organic compound toxic gas sensor	Modelling and performance analysis of silicene nanoribbon based volatile organic compound toxic gas sensor	
		Dr. Khurshed Ahmad Shah Assistant Professor S.P College, M.A. Road, Sgr (Co-Supervisor)			
2.	Mr. Zubair ul Islam **Integrated Ph.D.** Whole-time Reg. No. Nil	Prof. Basharat Ahmad Want	Dielectric and optical study of rare-earth based double perovskites	Dielectric and optical study of rare-earth based double perovskites	
3.	Mr. Sajad Ahmad Boked JRF **Integrated Ph.D.** Whole-time Reg. No.64371-ANG-2010	Prof. Naseer Iqbal	Spectral and temporal studies of black hole X-ray binaries	Spectral and temporal studies of black hole X-ray binaries	
		Prof. Ranjeev Misra, IUCAA, Pune (Co-Supervisor)			

No.	Name	Supervisor	Title	Title
4.	Mr. Sajad Ahmad Ahanger **Integrated Ph.D.** Whole-time Reg. No.2643l-PC-2012	Prof. Naseer Iqbal Dr. Sunder Sahayanathan (Co-Supervisor)	Understanding The Blazar Emission Processes Through Multi-Wavelength Studies	Understanding The Blazar Emission Processes Through Multi-Wavelength Studies
5.	Mr. Mohammad Rafeeq Rather SET **Integrated Ph.D.** Whole-time Reg No 1650-SUM-2014	Prof. Manzoor A. Malik Dr. T. K. Ramkumar, Scientist/Engineer-SF, NARL, Gadanki, Trupati, Deptt. of Space, ISRO, Govt. of India (Co-Supervisor)	Investigations of ionospheric irregularites and gravity waves in the mesosphere-thermosphere-ionosphere system	Investigations of ionospheric irregularites and gravity waves in the mesosphere-thermosphere-ionosphere system
6.	Mr. Tawseef Ahmad War **Integrated Ph.D.** Whole-time Reg. No.51262-A-2013	Prof. Gowher Bashir Vakil Dr. Sheikh Javid Ahmed Ex-Professor Deptt. of Physics (Co-Supervisor)	Microscopic investigation of high spin phenomena in atomic nuclei	Microscopic investigation of high spin phenomena in atomic nuclei

S.No.	Name / Reg. No.	Supervisor	Title of Research	Title of Research
7.	Mr. Mohammad Rafiq Chakan **Integrated Ph.D.** Whole-time Reg. No.33644-IC-2013	Dr. Sajad Masood Associate Professor Dr. Shakeel Ahmad Simnani Associate Professor, Dept. of Physics, (Co-Supervisor)	A study of risk assessment due to radon gas in soil and groundwater in Kashmir Valley	A study of risk assessment due to radon gas in soil and groundwater in Kashmir Valley
8.	Mr. Sajad Ahmad Bhat **Integrated Ph.D.** Whole-time Reg No.1668-DRA-2010	Prof. Gowher Bashir Vakil Dr. Sheikh Javid Ahmed Ex-Professor Deptt. of Physics (Co-Supervisor)	Investigation of Isomeric states in deformed nuclei	Investigation of Isomeric states in deformed nuclei
9.	Ms. Mehak Mohi-u Din **Integrated Ph.D.** Whole-time Reg. No.65188-W-2013	Dr. Shakeel A. Simnani Associate Professor Dr. Sajad A. Masood Associate Professor Deptt. of Physics (Co-Supervisor)	Biokinetic modeling of Uranium in water and risk assessment of radon, thoron, and their progenies in indoor environment of Kashmir Valley	Biokinetic modeling of Uranium in water and risk assessment of radon, thoron, and their progenies in indoor environment of Kashmir Valley

10.	Mr. Rayees Ahmad Mala **GATE** **Integrated Ph.D.** Whole-time Reg. No.3760-DRA-2014	Dr. Muzaffar Qadir Lone Assistant Professor	On the Non-Markovian Evolution in Open Quantum Systems	On the Non-Markovian Evolution in Open Quantum Systems
11.	Ms. Nazira Nazir **GATE** **Integrated Ph.D.** Whole-time Reg. No.28206-SJ-2014	Dr. Sheikh Javid Ahmed Ex-Professor Prof. Manzoor Ahmad Malik (Co-supervisor)	Nuclear structure studies using symmetry restored mean-field models	Nuclear structure studies using symmetry restored mean-field models