



University of Kashmir, Srinagar

Minutes of the meeting of Board of Research Studies (BORS) in Physical & Mathematical Sciences held on 30-08-2017 at 11:00 a.m. in the Committee Room of the Administration Block.

Present

1. Prof. K. I. Andrabi (In the Chair)
Vice-Chancellor
2. Prof. Zafar A. Reshi
Dean, Research
3. Prof. Musadiq Amin Sahaf
Dean Academic Affairs
4. Prof. G. M. Rather
Dean, School of Physical & Mathematical Sciences/
Head, Deptt. of Chemistry
5. Head, Department of Statistics;
6. Head, Department of Mathematics;
7. Head, Department of Physics

The Assistant Registrar, (Research) was also present.

At the outset, Dean Research welcomed the members and requested Hon'ble Vice-Chancellor for his valuable introductory remarks. Hon'ble Vice-Chancellor desired that the quality of research should improve and efforts should be made to pursue such research themes that have direct relevance to society. After due deliberations it was felt that following be complied with:

1. The statutes governing Integrated Ph.D programme be followed in letter and spirit, particularly in respect of constitution of Research progress Assessment Committee (RPAC) for assessment of work progress.
2. It should be ensured that the scholars maintain raw data which should be available on demand.
3. The supervisor should inform scholars about *Plagiarism Prevention Policy* adopted by the University Council at its meeting held on 22-04-2017 and ensure that the research papers/theses/dissertations/reports are not plagiarized.
4. It was strongly felt that only those co-supervisors from outside the university should be encouraged who bring certain expertise/experience that is not available in the University.
5. It was also resolved to initiate measures for adoption of University Grants Commission (Minimum Standards and Procedure for Award of M.Phil./Ph.D Degrees) Regulations, 2016.
6. It was resolved that supervisors shall maintain attendance of their research scholars during residency period. Attendance certificates issued by the concerned supervisors should however be countersigned by the Head of the Deptt./Director/Co-ordinator.

Subsequently agenda was taken up for discussion.

Item

No.1 Perusal of the action taken report of the last meeting of the Board of Research Studies in Physical and Material Sciences held on 28-10-2014, 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 Material Sciences held on 28-10-2014 pertaining to the matters relating to the Deptts. falling under School of Physical & Mathematical Sciences **be perused.**

Item

No. 2 Confirmation of minutes of the last meeting of the Board of Research Studies in Physical and Material Sciences held on 28-10-2014, pertaining to the matters relating to the Deptts. falling under School of Physical & Mathematical Sciences (already circulated).

Resolved that the minutes of the last meeting of the Board of Research Studies in Physical and Material Sciences held on 28-10-2014, pertaining to the matters relating to the Deptts. falling under School of Physical & Mathematical Sciences **be confirmed.**

Item

No. 3 Consideration of the request made by six (06) College Teachers, one Sr. Scientist from IHBT Palampur and one Associate Professor from SKUAST-K for grant of recognition as co-guides to supervise M.Phil/Ph.D scholars in the disciplines of Physics, Chemistry and Mathematics.

Resolved that following teachers be recognized as co-supervisors in the disciplines shown against each below:

<i>S. No</i>	<i>Name of Teacher</i>	<i>Name of the Discipline</i>
01	Dr. Khurshed Ahmad Shah, Assistant Professor, Physics, GDC Anantnag	Physics
02	Dr. Ab. Wahid Bhat, Assistant Professor, Physics, Islamia College, Sgr.	Physics
03	Dr. Arafat Firdous, Assistant Professor, Physics, Islamia College, Sgr.	Physics
04	Dr. Mohd Shafi Khan, Associate Professor, Physics, Govt. Degree College Bemina	Physics
05	Dr. Abid H.Banday, Assistant Professor, Chemistry, Islamia College Sgr.	Chemistry
06	Dr. Nadeem Bashir, Assistant Professor, Chemistry, GDC Nawakadal	Chemistry
07	Dr. Vijay Kant Agnihotri, Sr. Scientist, Chemistry, IHBT Palampur	Chemistry
08	Dr. M.S. Pukhta, Associate Professor, Mathematics, (SKUAST-K)	Mathematics

Item

No. 4 Consideration of the request made by two (2) Associate Professors, two (2) Assistant Professors, Department of Physics and one (1) Assistant Professor Department of Chemistry recommended by the Departmental Research Committees of the concerned Departments for grant of recognition as Guides to supervise M.Phil/Ph.D scholars in the disciplines of Physics and Chemistry.

Resolved that following teachers of the Department of Physics be recognized as supervisors for guiding M.Phil/Ph. D/I-Ph.D scholars in the discipline of Physics:

01. Dr. Shakeel Ahmad Simnani, Associate Professor
02. Dr. Sajad Masood, Associate Professor
03. Dr. Gh. Nabi Dar, Assistant Professor,
04. Dr. Nisar Ahmad , Assistant Professor

Resolved further that Dr. Aijaz Ahmad Dar, Assistant Professor, Deptt. of Chemistry be recognized as co-supervisor in the discipline of Chemistry. After his confirmation on the post of Assistant Professor, he will be deemed to have been recognized as supervisor.

Item

No.05 Ratification of the action taken by the Vice-Chancellor in having authorized Dr. M. A. Rizvi, Assistant Professor Department of Chemistry to act as Supervisor to guide, M.Phil/Ph.D Research Scholars in Department of Chemistry.

Resolved that the action taken by the Vice-Chancellor in having authorized Dr. M. A. Rizvi Assistant Professor Department of Chemistry to act as Supervisor to guide M.Phil/Ph.D Research Scholars in Department of Chemistry, **be ratified.**

Item

No.06 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. Chemistry

B. Statistics

C Mathematics

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 on the conditions (if any) indicated against each in the remarks column of the respective annexure.

T. Item

No.01 Consideration of the request of Dr. Mohammad Ibrahim Mir, Assistant Professor, South Campus Anantnag for grant of recognition as guide to supervise Ph.D/I-Ph.D scholars in the discipline of Mathematics.

Resolved that Dr. Mohammad Ibrahim Mir, Assistant Professor, South Campus be recognized as guide to supervise Ph.D/I-Ph.D scholars in the discipline of Mathematics.

The meeting terminated with a vote of thanks by the Dean Research to the members.

Approved.

Sd/-
Vice-Chancellor

Sd/-
Dean Research



UNIVERSITY OF KASHMIR, SRINAGAR
OFFICE OF THE DEAN RESEARCH

No: F (BORS-Phy & Material Scs)KU/17
Dated: October 05, 2017

Copy to the _____

_____ for information.

Assistant Registrar
(Research)

Annexure-C

Pharmaceutical Sciences

Registration of Scholars to 3- year Integrated Ph.D programme					
S. No.	Name of the Scholar	Name of Supervisor/ Co-Supervisor	Proposed topic of research	Approved topic of research	Remarks
1.	Mr. Taha Umair Wani Whole-time I-Ph.D Reg. No. 36673-A-2006	Dr. Nisar Ahmad Khan	<i>In vitro</i> and <i>in vivo</i> Investigation of Per-Oral Sustained Release Floating Dosage Forms for Bioavailability Enhancement of an Antihypertensive Agent	Studies on Floating Sustained Release Dosage Forms for Bioavailability Enhancement of an Antihypertensive Agent	Topic modified.
2.	Mr. Abdul Aala Fazli Whole-time I-Ph.D Reg. No. 10171-BC-98	Dr. Nisar Ahmad Khan	EVALUATION OF CARBOPOL 971 P NF FOR THE DEVELOPMENT OF EXTENDED RELEASE MATRIX TABLETS OF VENLAFAXINE HCl	EVALUATION OF CARBOPOL 971 P FOR EXTENDED RELEASE MATRIX TABLETS OF VENLAFAXINE HCl	Topic modified.
3.	Ms. Roohi Mohi-ud-din Whole-time I-Ph.D Reg. No. 47483-W-2006	Prof. M.Y.Shah Prof.Z.A.Bhat (Co-supervisor)	Bioactivity guided isolation & characterization of Anti-hepatotoxic markers from <i>Berberis pachyacantha</i> Koehne & <i>Astragalus grahamianus</i> Royel Ex. Benth	Bioactivity guided isolation & characterization of Anti-hepatotoxic markers from <i>Berberis pachyacantha</i> Koehne & <i>Astragalus grahamianus</i> Royel Ex. Benth	
4.	Ms. Riehana Gani Whole-time I-Ph.D Reg. No. 12-BPH-2006	Prof. Zulfakar Ali Bhat	Phytochemical, Anxiolytic and Standardization Studies on <i>Bunium persicum</i> (Bioss.) B.Fedtsch. and <i>Salvia moorcroftiana</i> wall.ex Benth	Phytochemical, Anxiolytic and Standardization Studies on <i>Bunium persicum</i> (Bioss.) B.Fedtsch. and <i>Salvia moorcroftiana</i> wall.ex Benth	

Annexure A

Electronics & Instrumentation Technology

Registration of scholars to Ph.D programme on the basis of having qualified M.Phil					
S. No.	Name of the Scholar	Name of Supervisor/ Co-Supervisor	Proposed topic of research	Approved topic of research	Remarks
1.	Ms. Sakeena Akhtar Whole-time Ph.D Reg.No. 59-IITM-2007	Dr Javaid Ahmad Sheikh Dr. Shabir Ahmad Parah (Co-supervisor)	Robust Techniques for low-Bit Error Rate Speech Coding in Wireless Environment with Special Reference to 5G Networks	Design of new Techniques for low-Bit Error Rate Speech Coding in Wireless Environment with Special Reference to 5G Networks	I. Topic modified. II. Objectives be reframed & scholar should clearly specify objectives of work.
2.	Mr. Reyaz A Mathangi Whole-time Ph.D Reg. No. 37691-S-2002	Dr. M. Tariq Bandy Dr. M. Rafiq Beigh (Co-supervisor)	Design of Network Layer Security Procedures for Internet of Things (IoT)	Design of Network Layer Security Procedures for Internet of Things (IoT)	Objectives be reframed & scholar should clearly specify objectives of work.
3.	Ms. Tawheed Jan Shah Whole-time Ph.D Reg.No. 45485-w-2005	Dr. M. Tariq Bandy	Design and Implementation of Novel Image Forgery Detection and Prevention Techniques	Design and Implementation of Novel Image Forgery Detection and Prevention Techniques	Objectives be reframed & scholar should clearly specify objectives of work.

Annexure A

Electronics & Instrumentation Technology

4.	Ms. Shafiya Afzal Sheikh Whole-time Ph.D Reg.No. 1507-kvc-2010	Dr. M. Tariq Bandy	Design of Novel Techniques for Securing Email System from Threats using Cryptographic and Filtering Methods	Design of Novel Techniques for Securing Email System from Threats using Cryptographic and Filtering Methods	
5.	Ms. Syed Umira Riyaz Qadri Whole-time Ph.D Reg.No. 39700-w-2003	Dr. M. Tariq Bandy	Efficient Quantum Dot Cellular Automata (QCA) Designs with Applications in Secure Message Communication		<p>I. DRC to re-look the proposed topics of research.</p> <p>II. Research topics of the two scholars have to be different in view of apparent overlap.</p>
6.	Mr. Zubair Ahmad Bangi Whole-time Ph.D Reg.No. 18352-IC-2004	Prof. Gh. Mohuidin Bhat	Design and Development of Efficient and Fault Tolerant Novel Secure Message Communication Circuits Using Quantum-dot Cellular Automata	Design and Development of Efficient and Fault Tolerant Novel Secure Message Communication Circuits Using Quantum-dot Cellular Automata	

Note: Head, Deptt. of Electronics & Instrumentation Technology was advised that synopses of 3-year Integrated Ph. D programme candidates (hard copies/soft copies) recommended by DRC be submitted to Dean Research. After obtaining remarks of BORS members, Dean Research shall make recommendations for approval of the competent authority.

Registration of Scholars to 3- year Integrated Ph.D programme					
S. No.	Name of the Scholar	Name of Supervisor/Co-Supervisor	Proposed topic of research	Approved topic of research	Remarks
1.	Mudasir Ahmad Shagoo Whole-time I-Ph.D Reg.No. 41462-S-2007	Dr. Adil Gani	Nano reduction of starch macromolecule and its utilization as bioactive nano-carrier for the development of functional foods	Nano scale reduction of starch macromolecule and its utilization as bioactive nano-carrier for development of functional foods	<i>Topic modified.</i>
2.	Sadaf Nazir Whole-time I- Ph.D Reg.No. 98-PHD-2015	Dr. Idrees Ahmad wani	Basil Seed Fractionation and Functional Characterization of its Components		<p><i>I. Papers published on the topic during 2016 have not been cited in the synopsis.</i></p> <p><i>II. DRC to ensure that work envisaged is not repetition of already done work on the topic.</i></p> <p><i>III. Besides, objectives given in the synopsis need modification to specifically focus on the topic of research.</i></p>
3.	Farah Naqash Whole-time I-Ph.D Reg.No. 99-PhD-2015	Prof. F.A. Masoodi	Development of active packaging for minimally processed apple using pectin from apple processing wastes	Development of active packaging for minimally processed apple using pectin from apple processing wastes	
4.	Rehana Akhter Whole-time I-Ph.D Reg.No. 50163-w-2007	Prof. F.A. Masoodi	Enhancing the stability of traditional meat products by combined effect of irradiation and microencapsulated natural antioxidants and biopreservatives	Enhancing the stability of traditional meat products by combined effect of irradiation and microencapsulated natural antioxidants and biopreservatives	

Annexure-E

Home Science

Registration of scholars to Ph.D programme on the basis of having qualified M.Phil from KU.					
<i>S. No.</i>	<i>Name of the Scholar</i>	<i>Name of Supervisor/ Co-Supervisor</i>	<i>Proposed topic of research</i>	<i>Approved topic of research</i>	<i>Remarks</i>
1.	Ms. Roshina Bashir Whole-time Ph.D Reg. No. 27925-w-1996	Prof. Nilofer Khan Prof. B.A Ganai (Co-supervisor)	IRON DEFICIENCY ANEMIA AND DIETARY HABITS AMONG ADOLESCENT GIRLS–A STUDY OF JAMMU, KASHMIR AND LADAKH		DRC to ensure that work on the topic has not been carried out earlier.
2.	Ms.Shafia Jan Whole-time Ph.D Reg. No. 31981-w-99	Prof. Nilofer Khan Prof. B.A Ganai (Co-supervisor)	Prevalence And The Contributing Factors Of Obesity Among the Young Adults of Kashmir		I. If study is on young adults, why only young adults of universities are the subjects of proposed study. II. Methodology is silent about the assessment of physical activity i.e in terms of calories utilized or duration of activity, regressness of activity. III. Supervisor to give clarifications on the above points. IV. DRC to seek reports from the Deptts. of Social Work, Sociology, Education, GMC, Sgr and SKIMS, Soura Sgr. to see that work on the topics has not been carried out in the said Deptts. Alternatively synopsis to be redrafted and new topics allotted to the scholars. V. Revised synopsis signed by DRC members to be routed through Dean of the School for approval of Dean Research.
3.	Ms. Al-Sabah Sayeed Whole-time Ph.D Reg. No. 25814-w-95	Prof. Naheed Vaida Prof. Nilofar Khan (Co-supervisor)	Socio-Economic Status and Home Environment in Relation to Emotional Intelligence and Personality Development of Adolescents in Kashmir		
4.	Ms. Jabina Banoo Whole-time Ph.D Reg. No. 73-M.Phil-2014	Prof. Naheed Vaida Prof. N.A. Nadeem (Co-supervisor)	Success Stories of Persons with Disabilities (PWD) in Jammu Kashmir and Ladakh regions-A Qualitative Approach		

Registration of scholars to 3-year Integrated Ph.D programme					
<i>S. No.</i>	<i>Name of the Scholar</i>	<i>Name of Supervisor/ Co-Supervisor</i>	<i>Proposed topic of research</i>	<i>Approved topic of research</i>	<i>Remarks</i>
1.	Mohamad Ahtisham Wani Whole-time I-Ph.D Reg. No. 24219-IC-2008	Dr. Wasim A. Bhat	Forensic and anti-forensic investigation of B-tree	Identification & Analysis of Forensic & Anti-Forensic Artefacts of B-Tree File System	I. Topic modified. II. Registration of the candidate is subject to the passing of I & II papers as per statutes in vogue.
2.	Mr. Zubair Jeelani Whole-time I-Ph.D Reg. No. 22616-SP-2005	Dr. Fasel Qadir	Cellular automata based approach for digital Image scrambling with emphasis on various Attacks	Cellular automata based approach for digital Image scrambling with emphasis on specific Attacks	I. Topic modified. II. Registration of candidate is subject to the passing of I&II papers as per statutes in vogue.
3.	Ms. Iqra Saraf Whole-time I-Ph.D Reg. No. 5558-BW-2008	Dr. Javaid Iqbal	STUDIES IN SOFTWARE RELIABILITY MODELLING	Modelling and Analysis of Software Fault Detection and Correction Process Considering Debugging Time Lag.	I. Topic modified. II. Registration of candidate is subject to the passing of I&II papers as per statutes in vogue.
4.	Mr. Owais Whole-time I-Ph.D Reg. No. 24857-SP-2006	Dr. Dawood Ashraf Khan	Context based Closed loop control for Type-2 Diabetes using Artificial Neural Networks	Design of a context-aware system for glycemic control in diabetic patients using neural networks	I. Topic modified. II. Registration of candidate is Subject to the passing of I&II papers as per statutes in vogue.

ANNEXURE-D

COMPUTER SCIENCE

5.	Mr. Ruqaya Amin Whole time I-Ph.D Reg. No. 53949-W-2008	Dr. Javid Iqbal	Prediction And Analysis of Software Reliability Growth Models	Modelling and Analysis of Testing Domain Dependent Software Reliability Growth Models	I. Topic modified. II. Registration of candidate is Subject to the passing of I&II papers as per statutes in vogue.
6.	Ms. Shozab Khurshid Whole time I-Ph.D Reg. No. 53951-W-2008	Dr. Javid Iqbal	On the Development of Software Reliability Growth Models	Modelling Software Reliability Growth from the Perspective of Imperfect Debugging	I. Topic modified. II. Registration of candidate is Subject to the passing of I&II papers as per statutes in vogue.
7.	Mr. Syed Abrar Ul Haq Whole time I-Ph.D Reg. No.42620-S-2009	Dr. Javaid Iqbal	Study of Model Based Software Performance Engineering	A New Architecture Based Approach for Improving Software Performance	I. Topic modified. II. Registration of candidate is subject to the passing of I&II papers as per statutes in vogue.
8.	Mr. Rameez Yousuf Whole time I-Ph.D Reg. No.16455-PC-2008	Dr. Dawood Ashraf Khan	TRUST-BASED APPROACH FOR BYZANTINE FAILURE PREVENTION IN Zone Routing Protocol (ZRP)	A NOVEL TRUST-BASED APPROACH FOR BYZANTINE FAILURE PREVENTION IN Zone Routing Protocol (ZRP)	I. Topic modified. II. Registration of candidate is subject to the passing of I&II papers as per statutes in vogue.

ANNEXURE-D

COMPUTER SCIENCE

9.	Mr. Tahir Mujtaba Whole time I-Ph.D Reg No.34784-A-2005	Prof M. Arif Wani	A DEEP LEARNING BASED APPROACH FOR FORECASTING OF SOLAR ENERGY AND DETECTION OF SOLAR PANELS	Deep Learning Based Image Segmentation Technique for Efficient Solar Panel Detection	I. Topic modified. II. Registration of candidate is subject to the passing of I&II papers as per statutes in vogue.
10	Mr. Farooq Ahmad Bhat Whole time Ph.D Reg No.18945-sj-2006	Prof. M. Arif Wani	CONVOLUTIONAL NEURAL NETWORK BASED APPROACH FOR FACE RECOGNITION	Efficient and Robust Convolutional Neural Network Based Models for Face Recognition	Topic modified.
11.	Ms. Saduf Whole time Ph.D Reg No.48038-w-2006	Prof. Mohd Arif Wani	DEVELOPING EFFICIENT DEEPARCHITECTURES FOR CLASSIFICATION TASK	DEVELOPING EFFICIENT DEEPARCHITECTURES FOR CLASSIFICATION TASK	

ANNEXURE-D**COMPUTER SCIENCE**

12	Mr. Musavir Hassan Whole time Ph.D Reg No. 17739-Aw-2007	Dr. Muheet Ahmed Butt	Privacy Preserving Data Mining Model for Distributed Healthcare Systems	Design and Evaluation of Privacy Preserving Data Mining Models for Distributed Healthcare Systems	Topic modified.
13	Mr. Razeef Mohd Whole-time Ph.D Reg No. 34329-s-1998	Dr. Muheet Ahmed Butt	Adaptive Data Mining Approaches for Efficient Predictive Analytics	Adaptive Data Mining Approaches for Efficient Predictive Analytics	Topic modified.
14	Mr. Asif Iqbal Khan Whole-time Ph.D Reg. No.16802-BC-2005	Prof. M. Arif Wani	Design And Evaluation of Convolutional Neural Network Based Models for automatic Latent Fingerprint Processing	Design And Evaluation of Convolutional Neural Network Based Models for automatic Latent Fingerprint Processing	
15	Ms. Heena Farooq Bhat Whole time Ph.D Reg. No.45582-w-2005	Prof. Mohd Arif Wani	Developing Efficient Gene Finding Algorithms Using Next Generation Genome Sequencing Data	Developing Efficient Gene Finding Algorithms Using Next Generation Genome Sequencing Data	

ANNEXURE-D**COMPUTER SCIENCE**

16	Mr. S. Jahangir Sidiq Whole time Ph.D Reg No. 22452-ic-2007	Dr. Majid Zaman	A Framework for Alleviating Class Imbalance Problem in Data Mining	A Learning Framework for Class Imbalance Problem using Hybrid Sampling	Topic modified.
17	Mr. Mudasir Ashraf Whole-time Ph.D Reg No. 20167-ic-2005	Dr. Majid Zaman	A Framework for Academic Data Classification using Predictive Analysis and Ensembles	Using Predictive Modelling System and Ensemble Methods to Ameliorate Classification Accuracy in Academics	Topic modified.
18	Mr. Imran Rashid Banday Ph.D Whole-time Reg No.13666-sj-2001	Dr. Majid Zaman S. M. K. Quadri (Co-supervisor)	Framework for Mining Enterprise Big Data	A Big Data Analytics Framework for Academic Enterprise	Topic modified.
19	Mr. Azhar Yousuf Mir Ph.D Whole-time Reg No.34643-Ang-98	Dr. Majid Zaman S. M. K. Quadri (Co-supervisor)	A Hybrid Framework for Recommender System for Handling Cold-Start Problem	A Hybrid Approach to address Cold-Start Problem in Recommender Systems	Topic modified.