



**Office of the Dean School of Engineering and Technology  
Islamic University of Science and Technology**

**Minutes of the meeting of First Board of Research Studies (BORS) of School of Engineering and Technology held on 17<sup>th</sup> of November, 2020 at Committee Room, Academic Block IV**

The first meeting of the Board of Research Studies (BORS) of the School of Engineering & Technology convened to discuss the agenda put up by various Engineering & Technology Departments was held on 17<sup>th</sup> of November, 2020 in the committee Room of Academic Block IV. Following members were present during the meeting:

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| 1. Prof. H. R. Naik<br>Dean Research, IUST   | Chairman  |
| 2. Prof. A. H. Moon<br>Dean, SOE&T   | Member Secretary  |
| 3. Prof. G. A. Harmain<br>Dean Research, NIT Srinagar                                | External Expert<br>Department of Mechanical Engineering             |
| 4. Prof. M. N. Hoda<br>Director, BVICAM<br>New-Delhi                                 | External Expert<br>Department of E&C Engineering<br>(Online Mode)   |
| 5. Prof. Gurpreet Singh Lehal<br>Department of Computer Science<br>Punjab University | External Expert<br>Department of Computer Sciences<br>(Online Mode) |
| 6. Prof. P. Nagabhushan<br>Director, IIIT Allahabad                                  | External Expert<br>Department of Computer Sciences<br>(Online Mode) |
| 7. Dr. Syed Zameer Hussain<br>Associate Professor<br>SKAUST-K, Shalimar              | External Expert<br>Department of Food Technology                    |
| 8. Dr. Javid Iqbal<br>Head, Deptt. of Computer Sciences                              | Member  |
| 9. Dr. Khalid Muzaffar<br>Head, Deptt. of E&C Engg.                                  | Member  |
| 10. Dr. Azher Jameel<br>Head, Deptt. of Mechanical Engineering                       | Member  |

In addition to above members, other faculty members who attended the meeting include **Dr. Asifa M. Baba** (Research Co-Ordinator, BORS), **Dr. Kaiser Javeed Giri** (AP, CS) **Dr. Faroze Ahmad** (A.P, E&C Engg.), **Dr. Burhan Khurshid** (A.P, E&C Engg.), **Dr. Muzaffar Rasool** (A.P, CS) and **Dr. Aamir Hussain** (A.P, FT). **Mr. Sheikh Asif**, Deputy Registrar Academics, IUST was also present during the meeting.

At the outset, Chairman BORS welcomed all the members present both online and offline to the first meeting of BORS. In his welcome address, he emphasized on the importance of conducting quality Research within the School of Engineering and Technology IUST. Member Secretary briefed about the pre-BORS activities including DRC proceedings held in respect of 21 Research Scholars admitted in 04 Engineering & Technology Departments including *Department of Electronics & Communication Engineering, Department of Mechanical Engineering, Department of Food Technology and Department of Compute Science*. He also apprised members of BORS about reviewing of proposed submitted synopsis by external experts for their kind perusal prior to the conduct of BORS.

The agenda items deliberated upon in BORS were as following:

- BORS (01) 1** Department wise discussion on the synopsis submitted by the Scholars and the recommendation of the BORS thereof.
- BORS (01) 2** Constitution of Students Research Advisory Committee (SRAC)
- BORS (01) 3** Recognition of Faculty Members as supervisors.
- BORS (01) 4** Finalization of credit work.

**BORS (01) 1 : *Department wise discussion on the synopsis submitted by the Scholars and the recommendation of the BORS thereof.***

**1.1 Department of Mechanical Engineering:**

- 1.1.1** Prof. G. A. Harmain, Department of Mechanical Engineering, currently Dean Research at National Institute of Technology Srinagar, attended the meeting as the subject expert in the area of Mechanical Engineering.
- 1.1.2** At the onset, Dr. Azher Jameel, I/C HoD Mechanical Engineering IUST presented the synopsis submitted by Mr. Ummer Amin Sheikh, Research Scholar titled as "*Mechanical Characterization of Wood Obtained from Different Types of Trees in Northern Himalayan Region*".
- 1.1.3** External expert opined that the proposed research work is very novel and has a direct impact on the society as wood is the main constructional material used in Northern Himalayas. The following recommendations were submitted by the BORS members with respect to this synopsis:

- The literature review should broaden the scope so as to cover the recent trends in this area.
- The current work should also include the characterization of seasoned and un-seasoned wood so that enough data is available for the designers.
- The title of the thesis should be slightly modified to reflect the mechanical characterization of wood used for constructional purpose only. Therefore it was suggested that the word "Wood" be replaced by "Timber" in the title of the Thesis.

S.No	Name of the Scholar	Approved Titles (by DRC)	Name of the Supervisor	Date of Registration
01	Mr. Ummer Amin Sheikh	<i>Mechanical Characterization of Timber Obtained from Different Types of Trees in Northern Himalayan Region</i>	Dr. Azher Jameel	17-07-2019

**Recommendations:**

*BORS recommends that the above Research Scholar listed at Serial No. 1 be registered for pursuit of Ph.D Program on full time basis in the Department of Mechanical Engineering on the topic, the supervisor allotted and date of registration shown against him.*





### 1.2 Department of Electronics & Communication Engineering:

Prof. M. N. Hoda, external expert attended the meeting online to review the synopsis submitted by various Research Scholars of the Department of Electronics and Communication Engineering mentioned below. Each Research Scholar made a detailed power point presentation related to their synopsis before the BORS. The external expert had a thorough discussion both with the scholar and his/her associated supervisor about the proposed Research work. He suggested both generic and specific changes to be incorporated in the synopsis, which were highly appreciated. He also emphasized on some of the best practices to be adopted during synopsis writing especially in quoting references. Prof. A. H. Moon presented the synopsis on behalf of Bhat Jasra, Serial No. 02, who was on maternity leave.

S.No.	Name of the Research Scholar	Title of the Research Work	Name of the Supervisor	Date of Registration
1.	Manasha Saqib	A lightweight Security Authentication Framework for Internet of Things	Prof. A. H. Moon	12-12-2018
2.	Bhat Jasra	Light Weight Security Framework for Image Encryption and Authentication	Prof. A. H. Moon	12-12-2018
3.	Issmat Shah Masoodi	Printed MIMO Antennas for 4G and 5G Communication	Dr. Khalid Muzaffar	06-12-2018
4.	Insha Ishteyaq	Performance Projected Antenna Designs for Fifth Generation (5G) Applications	Dr. Khalid Muzaffar	01-01-2019
5.	Aasif Bashir Dar	Optical Millimeter-Wave generation using Mach-Zehnder Modulators	Dr. Faroze Ahmad	11-12-2018
6.	Sajad Ahmad Tali	Design and Development of Power Transfer Techniques for Photovoltaic based Systems	Dr. Faroze Ahmad	11-12-2018
7.	Haweez Showkat	Design and development of Dual Hybrid Watermarking for Data Security	Dr. Asifa Mehraj Baba	12-12-2018
8.	Rooh-un-nisa	Speech Noise Suppression with Deep Learning for Speaker Identification and Verification	Dr. Asifa Mehraj Baba	15-01-2019

#### Recommendations:

BORS recommends that the above Research Scholars listed from Serial No. 1 to 8 be registered for pursuit of Ph.D Program on full time basis in the Department of Electronics & Communication Engineering on the topic, the supervisor allotted and date of registration shown against each.

### 1.3 : Department of Computer Sciences:

1.3.1 Prof. P. Nagabhushan, Director IIIT, Allahabad, UP, India and Prof. Gurpreet Singh Lehal, Department of Computer Science, Punjabi University, Patiala, currently Director of the Advanced Centre for Technical Development of Punjabi Language Literature and Culture attended the meeting online as the external experts.

1.3.2 Synopsis of the four scholars of the Department of Computer Sciences as per the following details were placed before the committee (BORS).

S.No	Name of the Scholar	Approved Titles (by DRC)	Name of the Supervisor	Date of Registration
1	Rayeesa Mehmood	A Novel GAN-Based Network for Generation of Videos from Text	Dr. Rumaan Bashir	01-03-2019
2	Wasim Bashir	Development of Robust Watermarking Technique for Copyright Protection of DNN Models	Dr. Kasier Javeed	12-06-2019
3	Irshad Ahmad Thukroo	Spoken Language Identification using DNN	Dr. Rumaan Bashir	01-03-2019
4	Nawaz Ali Lone	Kashmiri to English Machine Translation using DNN	Dr. Kasier Javeed	01-03-2019

### Recommendations

- I. Minor modifications of generic nature were proposed in the synopsis mentioned at serial no. 1, 3 & 4 by external experts.
- II. Change of title of the synopsis mentioned at serial no. 2 was suggested as "Development of a Secure Neural Network Model against Black-Box Backdoor Attacks"

*BORS recommends that the above Research Scholars listed from Serial No. 1 to 4 be registered for pursuit of Ph.D Program on full time basis in the Department of Computer Science on the topic, revised topic as per the suggestions of the expert(s), the supervisor allotted and date of registration shown against each.*



#### 1.4; Department of Food Technology:

External Expert Dr. Syed Zameer Hussain, Associate Professor from the Division of Food Science and Technology, SKAUST-K discussed the synopsis of two Research Scholars with the concerned Research Supervisors. Some generic modifications were suggested by the external expert.

S.No	Name of the Scholar	Approved Titles (by DRC)	Name of the Supervisor/Co-supervisor	Date of Registration
01	Jahangir Ahmad Rather	<i>Development of Bio-nano composite films based upon poultry waste gelatin and their application in enhancing shelf life of food products</i>	Dr. Basharat Nabi Dar/Dr. Aamir Hussain Dar	11-12-2018
02	Qazi Showkat Ashraf	<i>Development, Characterization and Vectorization of Lotus Rhizome for its potential utilization as a powder ingredient</i>	Dr. Darakshan Majid/ Dr. Basharat Nabi Dar	09-02-2019

External Expert suggested the reframing of objectives , incorporation of Engineering and Physical properties in the synopsis of *Qazi Showkat Ashraf*.

#### **Recommendations:**

*BORS recommends that the above Research Scholars listed from Serial No. 1 to 2 be registered for pursuit of Ph.D Program on full time basis in the Department of Food Technology on the topic ,the supervisor allotted and date of registration shown against each.*





**BORS (01) 2 : Constitution of Students Research Advisory Committee (SRAC)**

It has been also resolved that Students Research Advisory Committee (SRAC) framed in various departments of School of Engineering and Technology be approved so that the preliminary examination of the topics chosen by the Research Scholars can be done. The details of approved SRAC members by the Experts across School of Engineering and Technology is as follows:

S.No.	Name of the Scholar	SRAC Committee	Department
1.	Mr. Umar Amin Sheikh	Dr. AzherJameel Dr. ShahkarNehvi Dr. BasharatNabi Dar	Department of Mechanical Engineering
2.	Ms. Manasha Saqib	Dr. Assif Assad Dr. Asifa Baba	Department of Electronics and Communication Engineering
3.	Ms. Bhat Jasra	Dr. Kaiser Giri Dr. MuzaffarRasool	Department of Electronics and Communication Engineering
4.	Mr. Issmat Shah Masoodi	Prof. A. H. Moon Dr. Faroze Ahmad	Department of Electronics and Communication Engineering
5.	Ms. Insha Ishteyaq	Prof. A. H. Moon Dr. Asifa Baba	Department of Electronics and Communication Engineering
6.	Mr. Aasif Bashir Dar	Dr. Khalid Muzaffar Dr. Asifa Baba	Department of Electronics and Communication Engineering
7.	Mr. Sajad Ahmad Tali	Prof. A. H. Moon Dr. Ahmad Sharique Anees	Department of Electronics and Communication Engineering
8.	Ms. Haweez Showkat	Dr. Rumaan Bashir Dr. Muzaffar Rasool	Department of Electronics and Communication Engineering
9.	Ms. Rooh-un-Nisa	Dr. Assif Assad Dr. Rumaan Bashir	Department of Electronics and Communication Engineering
10.	Ms. Rayeesa Mehmood	Dr. Rumaan Bashir Dr. Kaiser Javeed Giri Dr. Peer Bilal Ahmad	Department of Computer Sciences
11.	Mr. Nawaz Ali Lone	Dr. Rumaan Bashir Dr. Kaiser JaveedGiri Dr. Peer Bilal Ahmad	Department of Computer Sciences
12.	Mr. Irshad Ahmad Thukroo	Dr. Rumaan Bashir Dr. Kaiser javeedGiri Dr. Asifa Baba	Department of Computer Sciences
13.	Mr. Wasim Bashir	Dr. Rumaan Bashir Dr. Kaiser javeedGiri Dr. Peer Bilal Ahmad	Department of Computer Sciences
14.	Jahangir Ahmad Rather	Dr. Basharat Nabi Dar Dr. Aamir Hussain Dar	Department of Food Technology
15.	Qazi Showkat Ashraf	Dr. BasharatNabi Dar Dr. Aamir Hussain Dar	Department of Food Technology



16.	Mohsin Bashir Aga	Dr. Aamir Hussain Dar Dr. Owais Gulzar	Department of Food Technology
17.	Arshid Iqbal Khan	Prof. A. H. Moon Dr. Khalid Muzaffar Dr. Faroze Ahmad	Department of Electronics and Communication Engineering
18.	Mohammad Haroon	Dr. Burhan Khurshid Dr. Khalid Muzaffar Dr. Asifa Baba	Department of Electronics and Communication Engineering
19.	Faizan Shabir	Dr. Asifa Baba Prof. A. H. Moon Dr. Burhan Khurshid	Department of Electronics and Communication Engineering
20.	Baseerat Gul	Dr. Faroze Ahmad Dr. Burhan Khurshid Dr. Asifa Baba	Department of Electronics and Communication Engineering
21.	Aamir Farooq	Dr. Khalid Muzaffar Dr. Faroze Ahmad Dr. Asifa Baba	Department of Electronics and Communication Engineering

### BORS (01) 3 : Recognition of Faculty Members as supervisors

Board of Research Studies considered the request of the teachers for the grant of recognition as Research Guides to supervise the Ph.D Scholars in various Departments of School of Engineering and Technology. The details of same are given below:

Name of the faculty Member	Department	Date of Eligibility as supervisor	Remarks
Dr. Azher Jameel	Mechanical Engineering	05-05-2018	Completed Ph.D on 06-03-2017
Prof. A. H. Moon	Electronics and Communication Engineering	2017	Completed Ph.D on 2016
Dr. Khalid Muzaffar	Electronics and Communication Engineering	01-06-2018	Completed Ph.D on June 2017
Dr. Faroze Ahmad	Electronics and Communication Engineering	07-09-2008	Completed Ph.D on 07-09-2007
Dr. Asifa Mehraj Baba	Electronics and Communication Engineering	22-09-2009	Completed Ph.D in year 2008
Dr. Burhan Khurshid	Electronics and Communication Engineering	26-03-2019	Completed Ph. D in January 2017
Dr. Rumaan Bashir	Computer Science	22-06-2016	Completed Ph. D on 22nd of June, 2016
Dr. Kaiser Javeed Giri	Computer Science	22-06-2016	Completed Ph. D on 22nd of June, 2016




Dr. Javaid Iqbal	Computer Science	19-06-2019	Completed Ph. D on 19th of June, 2019
Dr. Muzafar Rasool	Computer Science	24-06-2019	Completed Ph. D on 24th of June, 2019
Prof. Haroon Naik	Department of Food Technology	2000	Completed Ph. D on 1999
Dr. Basharat Nabi Dar	Department of Food Technology	2013	Completed Ph.D in 2012
Dr. Aamir Hussain Dar	Department of Food Technology	28-03-2016	Completed Ph. D on 28-03-2015
Dr. Darakshan Majid	Department of Food Technology	2018	Completed Ph.D on July 2013
Dr. Suman Vikas	Department of Food Technology	2018	Completed Ph D on October 2009
Dr. Hital Ahmad Makroo	Department of Food Technology	13 November, 2020	Completed Ph. D on April 2019

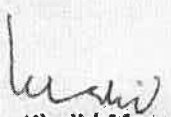
The approval was granted to **Dr. Aamir Hussain Dar (AP, FT)** as Supervisor and **Prof. H. R. Naik (HoD, FT)** co-supervisor to Research Scholar *Mohsin Bashir Aga* bearing Registration No. IUST0117010717.

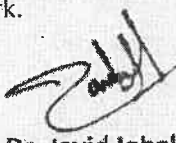
**BORS (01) 4: Finalization of credit work.**

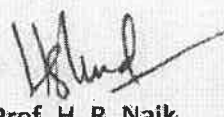
It was suggested that the overall credits for the course work of different Research Scholars across the School of Engineering and Technology shall be uniform at **14 credits (4+2+4+4)**. The same recommendations would be made to Dean Academics Affairs IUST for consideration.


At the end Member Secretary BORS presented vote of thanks to all the members present both online and offline for taking their valuable time off to attend this meeting and make significant suggestions which would go a long way to strengthen the Research work at IUST. In particular he presented special thanks to External experts for evaluating the synopsis and making important suggestions to be incorporated in the research work.


  
Dr. Azher Jameel  
HoD, ME

  
Dr. Khalid Muzaffar  
HoD, ECE

  
Dr. Javid Iqbal  
HoD, CS

  
Prof. H. R. Naik  
HoD, FT

  
Prof. A. H. Moon  
Dean SoE&T

  
Prof. H. R. Naik  
Dean Research