

FRC Meeting Minutes 16th FRC, Faculty of Engineering Sciences June 29, 2022

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A special meeting of the Faculty Research Committee of the Faculty of Engineering Sciences
(FRC-ES) was held on June 29, 2022, at 1030. The meeting was hosted at the H-11 campus,
Islamabad while members in Lahore and Karachi joined the meeting through video link. The
meeting was called to conclude the pending cases which needed urgent approvals.

Attendees

2. The meeting was attended by the following:

i.	Dr. Atif Raza Jafri	Dean ES, Chair (FRC-ES)
ii.	Dr. Sohaib Ahmed	Principal BSEAS, BUKC
iii.	Dr. Shahzad Hassan	HoD CE Dept., IC
iv.	Dr. Arif ur Rahman	HoD CS Dept., IC
٧.	Dr. Syed Safdar Ali	HoD CS Dept., KC
vi.	Dr. Khawaja Qasim Maqbool	HoD CS Dept., LC
vii.	Dr. Junaid Imtiaz	HoD, EE Dept., IC
viii.	Dr. Najam Muhammad Amin	HoD EE Dept., KC
ix.	Dr. Said Akbar Khan	HoD EES Dept., IC
x.	Dr. Salma Hamza	HoD EES Dept., KC
xi.	Dr. Awais Majeed	HoD SE Dept.,IC
xii.	Dr. Osama Rehman	HoD SE Dept., KC
xiii.	Dr. Muhammad Ramzan	Snr. Professor CS Dept., IC
xiv.	Dr. Imran Siddiqi	Snr. Professor CS Dept., IC (Secretary FRC-ES)

Opening Remarks

3. The meeting started with the recitation from the Holy Quran. Chair FRC welcomed the participants at the three campuses and apprised the house on the motives of calling the special session of the FRC. The chair also stressed that all cases must be timely presented in the regular FRC meetings to avoid any academic loss to the students.



Agenda

- 4. The agenda items for the special meeting of the FRC-ES were primarily related to cases which needed urgent approvals. Other cases to be presented in the regular meeting of the FRC-ES.
- 5. The agenda items presented, and the decisions taken are as follows.

Agenda Items

Item 16.1 Addition of Co-Supervisor – MS (CE) Student, BUIC

Discussion

6. HoD CE, IC presented the case of MS (CE) student Mr. Usama Razzaq (01-242202-009) supervised by Dr. Muhammad Najam-ul-Islam. The title of his research is "Hardware Acceleration of Genome Sequencing Using FPGA". The principal supervisor has requested the appointment of Dr. Khalid Javed as co-supervisor of the candidate as Dr. Javed is actively involved in guiding the student. The respective DRC has also recommended the appointment.

Decision

7. On recommendation of the DRC, FRC approved the appointment of Dr. Khalid Javed as co-supervisor of the MS (CE) student Mr. Usama Razzaq (01-242202-009).

Action by: HoD CE, BUIC

Item 16.2 Addition of Co-Supervisor - PhD (CE) Scholar, BUIC

Discussion

8. HoD CE, IC presented the case of PhD scholar Mr. Waqar Khalid (01-281202-001) who has cleared his comprehensive examination on 13th September 2021 and is ready to appear for the PhD proposal defence. The principal supervisor of the candidate, Dr. Shehzad Khalid has requested to appoint Dr. Syed Muhammad Usman as the co-supervisor of the candidate. The appointment was recommended by the respective DRC as well.

Decision

9. On recommendation of the DRC, FRC appointeded Dr. Syed Muhammad Usman as the co-supervisor of PhD scholar Mr. Waqar Khalid (01-281202-001).

Action by: HoD CE, BUIC



Item 16.3 Change of Co-Supervisor and Update of Advisory Committee - PhD (EE) Scholar, BUIC

Discussion

10. The supervisor/co-supervisor of PhD (EE) scholar Mr. Muhammad Yaseen (01-281201-001) were appointed in FRC-15 (Agenda Item 15.11). Previously, Dr. Muhammad Aamir was appointed as co-supervisor of the candidate as it was felt that his PhD research could include Power Electronics. Currently, the scholar has submitted the research proposal and his core research areas include Optimization, Economic Dispatch, Demand Response Programs and AI, which eventually converge as Energy Management for Resilient Microgrids with Penetration of Distributed Generation. Consequently, based on the domains involved in the research, Dr. Imran Fareed Nizami was requested to be appointed as his co-supervisor. Furthermore, the advisory committee of the candidate was also requested to be updated.

Decision

- 11. On recommendation of the DRC, FRC approved the following for the PhD (EE) scholar Mr. Muhammad Yaseen (01-281201-001).
 - i. Appointment of Dr. Imran Fareed Nizami as co-supervisor of the candidate.
 - ii. Re-constitution of the following advisory committee.
 - Dr. Asad Wagar
 - Dr. Imtiaz Alam
 - Dr. Adil Ali Raja

Action by: HoD EE, BUIC

Item 16.4 Appointment of Examiners for PhD Proposal Defense, EE Dept., BUIC

Discussion

12. HoD EE, BUIC presented the case of PhD (EE) scholar Mr. Muhammad Yaseen (01-281201-001). The candidate has submitted his research proposal and case for title approval from the Pro-Rector (RIC) is in process vide Case#BUIC/EE/2022/340. FRC was requeted to appoint appropriate internal and external examiners for the PhD proposal defense of the candidate.

Decision

13. FRC approved the following panel of examiners for the PhD proposal defense of the candidate Mr. Muhammad Yaseen (01-281201-001).



S.	Name	Research Title (Tentative)	Supervisor	Examiners
No.	(Enrolment #)		(Co-Supervisor)	
1	Muhammad Yaseen	Energy Management Planning for	Dr. Asad Waqar	Internal Examiner:
	(01-281201-001)	Resilience Enhancement of Microgrids	(Dr. Imran Fareed	Dr. Muhammad Raza
	PhD (EE)	Integrated with High Penetration of	Nizami)	[BUKC]
		Distributed Generation.		External Examiners:
				Dr. Intisar Ali Sajjad
				Dr. Azhar ul Haq

Action by: HoD EE, BUIC

Item 16.5 Inclusion of Experts in the List of Foreign Evaluators

Discussion

14. Profiles of various international researchers were presented for recommendation to the HERC to include them in the pool of foreign evaluators to review PhD theses.

Decision

15. FRC approved the profiles of the presented researchers for recommendation to the HERC to include them in the pool of foreign evaluators. Profile summaries of the experts are presented in **Annex I**.

Action by: Concerned HoDs

<u>Item 16.6 Change of Foreign Evaluator – PhD (SE) Scholar, BUIC</u>

Discussion

16. HoD SE, IC presented the case of PhD (SE) scholar Mr. Khurrum Mustafa Abbasi (01-281152-002). The following panel of foreign evaluators was recommended by the FRC-ES in its 13th meeting.

	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Theis Title	Recommended Foreign Evaluators
1	Khurrum Mustafa	PhD (SE)	Dr. Tamim A Khan	A Unified Modeling	Dr. Eric Schecuta
	Abbasi		(Dr. Irfan ul Haq)	Framework for Internet of	Dr. Valentina Emilia Balas
	(01-281152-002)			Things (IoT) Systems	Dr. Reiko Heckel
	(52 252252 662)			85 (Dr. Lei Zhang

17. The house was informed that one the evaluators, Dr. Valentina Emilia Balas, has been blackisted and needs to be replaced. The respective DRC recommended Dr. Zhongshan Zhang, Professor at the Beijing Institute of Technology, China, to replace Dr. Valentina Emilia Balas.

Decision

18. FRC recommended the following revised panel of foreign evaluators for the PhD (SE) scholar Mr. Khurrum Mustafa Abbasi (01-281152-002).



S No.	Name (Enrolment #)	Ū	Supervisor (Co-Supervisor)	Theis Title	Recommended Foreign Evaluators
	Khurrum Mustafa Abbasi (01-281152-002)	PhD (SE)	Dr. Tamim A Khan (Dr. Irfan ul Haq)	Framework for Internet of Things (IoT) Systems	Dr. Eric Schecuta Dr. Zhongshan Zhang Dr. Reiko Heckel Dr. Lei Zhang

Action by: HoD SE, BUIC

Item 16.7 Recommendation of Foreign Evaluators for PhD Candidates

Discussion

19. Cases of PhD scholars listed in **Annex-II** were presented and FRC was requested to provide recommendation of foreign evaluators for subsequent evaluation of the thesis.

Decision

20. On recommendation of the respective DRCs, FRC provided its recommendation for the foreign evaluation of the PhD theses of the presented candidates. Details of candidates and the recommended evaluators are listed in **Annex-II**.

Action by: Concerned HoDs

Item 16.8 Appointment of Examiners for PhD Comprehensive Exam

Discussion

21. Cases of students enrolled in different PhD programs (Annex-III) were presented. The candidates will be completing their course work in Spring 2022 and need to appear for the PhD comprehensive exam. FRC was requested to approve relevant subjects and appoint appropriate examiners for the PhD Comprehensive Exams.

Decision

22. On recommendation of the DRC, FRC approved the subjects and examiners for the PhD Comprehensive Exam of the presented candidates. Details of candidates and approved examiners are listed in **Annex-III**.

Action by: Concerned HoDs

Item 16.9 Appointment of Examiners for MS Thesis Defense, CS Dept., BUKC

Discussion

23. HoD CS, KC presented the cases of MS students (Annex-IV) who have to appear for the final thesis defense. FRC was requested to appoint appropriate internal and external examiners for the presented candidates.

Decision

24. On recommendation of the DRC, FRC appointed panels of examiners for the presented MS (CS) candidates.

Details of candidates and the approved panels are listed in **Annex-IV**.





Item 16.10 Appointment of Co-Supervisor PhD (CS) Scholar, BUIC

Discussion

25. HoD CS, IC presented the case of PhD candidate Mr. Amir Ali (01-283202-002) who is working under the supervision of Dr. Sumaira Kausar. The title of his research is "Psycho-educational assessment and assistance for early age dyslexia using intelligent techniques". Being a multi-disciplinary research problem, supervisor of the candidate has requested appointment of an appropriate co-supervisor. DRC recommended Dr. Wizra Saeed with expertise in psychology as the co-supervisor of the candidate.

Decision

26. On recommendation of the the DRC, FRC approved the appointment of Dr. Wizra Saeed as the co-supervisor of PhD candidate Mr. Amir Ali (01-283202-002).

Action by: HoD CS, BUIC

<u>Item 16.11 Recommendation of Examiners for PhD Final Thesis Defense (FTD)</u>

Discussion

27. Cases of PhD scholars listed in **Annex-V** were presented and FRC was requested to provide recommendation of examiners for the final thesis defense of the candidates.

Decision

28. On recommendation of the respective DRCs, FRC provided its recommendation of the FTD examiners for PhD theses of the presented candidates. Details of candidates and the recommended examiners are listed in **Annex-V**.

Action by: Concerned HoDs

Item 16.12 Change of Internal Examiner for MS Thesis Defense - SE Dept., BUKC

Discussion

29. HoD SE, KC informed the house that the following panel of examiners was appointed for MS student Ms. Hafsa Abbas (02-241192- 012) in the 15th meeting of FRC.

S. No.	Name (Enrolment #)	Thesis Title	Program	Supervisor	Internal Examiner	External Examiner
NO.	(Ellionnent #)				Examine	Examine
1	Hafsa Abbas	Performance	MS SE	Dr. Osama	Dr. Kashif	Dr. Rehan
	(02-241192-012)	Analysis of Deep		Rehman	Hussain	Qureshi
		Learning Approach			Talpur	
		for Classifying				
		DDoS Attacks from				
		Benign Network				
		Traffic				



30. The internal examiners, Dr. Kashif Hussain Talpur has resigned from BU and may not be available at the time of the thesis defense of the candidate. FRC was therefore requested to replace Dr. Kashif Hussain Talpur with a different appropriate internal examiner.

Decision

31. On recommendation of the DRC, FRC appointed the following revised panel of examiners for the MS thesis defense of candidate Ms. Hafsa Abbas (02-241192- 012).

S. No.	Name (Enrolment #)	Thesis Title	Program	Supervisor	Internal Examiner	External Examiner
1	Hafsa Abbas (02-241192- 012)	Performance Analysis of Deep Learning Approach for Classifying DDoS Attacks from Benign Network Traffic	MS SE	Dr. Osama Rehman	Dr. Amina Jameel	Dr. Rehan Qureshi

Action by: HoD SE, BUKC

Closing Remarks

Chair FRC-ES summarised the key decisions. In his closing remarks, Chair – FRC thanked the members/participants for contributing to the FRC-ES meeting.

Dr. Atif Raza Jaffri

Chair – FRC, Dean ES

July 25, 2022

Annex-I: Inclusion of Experts in the List of Foreign Evaluators

No	.Name	Designation	Affiliation	Post-PhD	Research Area(s)	University	Sponsored
				Experience		Ranking (QS/Times)	Ву
1.	Dr. Zhongshan Zhang	Professor	Beijing Institute of Technology, China	20 years	Statistical signal processing, full-duplex communications, self-organized networking, cognitive radio, and cooperative communications	335	SE, BUIC
2.	Dr. Xiaoming Dai	Professor	University of Science and Technology Beijing, China	20 years	Broadband wireless communication 5G + / 6G artificial intelligence non-orthogonal	428	SE, BUIC
3.	Dr. Linglong Dai	Associate Professor	Tsinghua University, China	15 years	5G/6G wireless communication technologies (massive MIMO, millimeter-wave/Terahertz communications, non-orthogonal multiple access, etc.) and machine learning for future wireless communications.	14	SE, BUIC
4.	Dr. Francesco Piccialli	Assistant Professor	University of Naples, Italy	10 Years	Deep Learning, Machine Learning, Internet of Things, Data Analytics, Artificial Intelligence	416	SE, BUIC
5.	Dr. Sun Jichao	Associate Professor	China University of Geosciences, China	15 years	Hydrology, Hydraulic engineering, Geotechnical engineering.	428	E&ES, BUKC
6.	Prof. Tommaso Melodia	Professor	Northeastern University Boston, MA, 02115 USA	14 Years	Wireless Network Internet of Things, 5G and beyond networks; artificial intelligence in wireless; spectrum sharing; open RAN	342	EE, BUKC
7.	Prof. Jaehoon (Paul) Jeong	Associate Professor	Sungkyunkwan University, South Korea	12 Years	Software-Defined Networking (SDN), Network Functions Virtualization (NFV), and the Future Internet, IoT, Vehicular Networks	97	EE, BUKC
8.	Prof. Edris Pouresmaeil	Associate Professor	Aalto University, Finland	10 Years	Smart grids and microgrids; Operation and control of power converters in power systems;	112	EE, BUKC

Annex-II: Recommendation of Foreign Evaluators for PhD Candidates

SNo.	Name	Dept.	Program	Supervisor	Theis Title	Recommended Foreign Evaluators
1.	Zulfiqar Ali (01-281151-001)	SE, BUIC	PhD (SE)	Dr. Kashif Naseer (Dr. Shagufta Henna)	Services Provisioning by Using Intelligent Learning for Long Range Wide Area Network (LoRaWAN)	Prof. Dr. Francesco Piccialli Dr. Jaime Lloret Dr. Zhongshan Zhang Dr. Xiaoming Dai
2.	Syed Saqib Shah (01-283181-003)	CS, BUIC	PhD (Maths)	Dr. Rizwan ul Haq	Convection analysis in closed cavity via FEM approach	Dr. Ran Zhang Dr. O. D. Makinde Dr. Sharidan Bin Shafie Dr. J. M. Floryan
3.	Muhammad Irfan (02-282142-003)	E&ES, BUKO	PhD (ES)	Dr. Yasmin Nergis (Dr. Mehrab Khan & Dr. Muhammad Shafiq)	Hydro Climatological Studies of Gilgit River Basin, Pakistan	Dr. Luis Carlos Belalcazar Ceron Dr. Sun Jichao Dr. Heekwan Lee Dr. You Liang Ji
4.	Mohammad Idrees (02-282142-002)	E&ES, BUKO	PhD (ES)	Dr. Yasmin Nergis	Climate change risk assessment in coastal areas of Karachi Pakistan	Dr. Heekwan Lee Dr. Luis Carlos Belalcazar Ceron Dr. Nordiana Mohd Muztaza Dr. Sun Jichao

Annex-III: Appointment of Examiners for PhD Comprehensive Exam

SNo.	Name (Enrolment #)	Dep., Campus	_	Supervisor (Co-Supervisor)	Research Title/Area	Course	Examiner
1	Darakhshan Syed (02-284212-001)	CS, BUKC	PhD (CS)	Dr. Ghulam Muhammad (Dr. Kashif Hussain)	Swarm Intelligence-Based Load Balancing Techniques in Cloud Computing	Advanced Neural Networks	Dr. Samabia Tehsin
					Environment	Advanced Topics in Wireless Networking and Communications	Dr. Syed Safdar Ali
						Cloud Computing	Dr. Ghulam Muhammad
						Advanced Human Computer Interaction	Dr. Humera Farooq
2	Muhammad Shahzad	CS, BUKC	PhD (CS)	Dr. Syed Safdar Ali	A Novel Blockchain-Based Security Mechanism for SDN Architecture	Advanced Computer Architecture	Dr. Talha Ahmed Khan
(02-2	(02-284212-002)	-002)				Advanced Topics in Wireless Networking and Communications	Dr. Syed Safdar Ali
						Advanced Human Computer Interaction	Dr. Humera Farooq
						Pattern Recognition	Dr. Hina Shakir
3	Shahid Mahmood (01-284212-002)	CS, BUIC	S, BUIC PhD (CS) Dr.	Dr. Moneeb Gohar	Analyzing Network Security Issues in Interne of Things and Proposing Efficient Solution using Fog Computing	Machine Learning	Dr. Sumaira Kausar
						IoT Architectures and Protocols	Dr. Moneeb Gohar
						Deep Learning	Dr. Imran Siddigi
						Advanced Cryptography	Dr. Faisal Bashir
4	Nasir Iqbal (01-284212-001)	CS, BUIC PhD (CS)	PhD (CS)	S) Dr. Muhammad Najam-ul- Islam	Novel Framework for Malicious Document Detection	Machine Learning	Dr. Sumaira Kausar
	(01 20 1212 001)					IoT Architectures and Protocols	Dr. Moneeb Gohar

							Dr. Imran Siddiqi
						Advanced	Dr. Faisal
						Cryptography	Bashir
5	Muhammad Tauseef (02-281212-001)	BUKC		UKC (Dr. Amina Jameel)	Software Engineering Practices, Software and Information Modelling & Simulation, Pattern Recognition & Machine Learning	Advanced Neural Networks and Fuzzy Logic	Dr. Samabia Tehsin
						0	Dr. Sohaib Ahmed
						Ubiquitous Computing	Dr. Osama Rehman
						Advanced Data Mining	Dr. Amina Jameel

Annex-IV: Appointment of Examiners MS Thesis Defense

SNo.	Name (Enrolment #)	Program	Thesis Title	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Ibrahim Muhammad Deen (02-243202-004)	MS (CS), BUKC	Identity Access Management and Securable way of sharing files using Cloud Services	Dr. Ghulam Muhamamd (Imran Memon)	Dr. Osama Rehman	Dr. Muhammad Mulook Rind
2	Syed Muhammad Waqas (02-243202-016)	MS (CS), BUKC	Density Peaks Clustering based on Gaussian Fuzzy neighborhood with Noise Parameter (DPC-GFNN)	Dr. Ghulam Muhammad (Dr. Kashif Hussain)	Dr. Saif Ullah Tumrani	Dr. Yawar Rehman

Annex-V: Recommendation of Examiners for PhD Final Thesis Defnese (FTD)

SNo.	Name (Enrolment #)	Dept./Campus	Program	Supervisor (Co-Supervisor)	Thesis Title	Recommended Examiners ¹
1	Hina Gul (01-283182-001)	CS, BUIC	PhD (Maths)	Dr. Muhammad Ramzan	Impact of Cattaneo-Chirstov Heat Flux in Newtonian and Non-Newtonian Nanofluid Flows	External Examienrs: 1. Dr. Rashid Mahmood, Air University 2. Dr. Masood Khan, QAU 3. Dr. Sadia Hina, FJWU 4. Dr. Nasir Ali, IIU
						Internal Examiners 1. Dr. Talat Sharafat Rehmani, BUKC 2. Dr. Jafar Hasnain
2	Saima Riasat (01-283181-002)	CS, BUIC	PhD (Maths)	Dr. Muhammad Ramzan	Flow Due to Rotating Disks	External Examienrs: 1. Dr. Zahid Iqbal, AIOU 2. Dr. M. Nawaz, IST 3. Dr. Masood Khan, QAU 4. Dr. Noreen Sher Akbar, NUST Internal Examiners 1. Dr. Talat Sharafat Rehmani, BUKC 2. Dr. Jafar Hasnain
3.	Naila Shaheen (01-283181-001)	CS, BUIC	PhD (Maths)	Dr. Muhammad Ramzan	Boundary Layer Flows of NanoFluid Over A Stretching Surface with Chemical Reaction	External Examienrs: 1. Dr. Sohail Nadeem, QAU 2. Dr. Sadia Hina, FJWU 3. Dr. M. Nawaz, IST 4. Dr. Meraj Mustafa, NUST Internal Examiners 1. Dr. Talat Sharafat Rehmani, BUKC 2. Dr. Rizwan ul Haq

¹ Subject to clearance of foreign evaluation where applicable

4.	Syed Saqib Shah (01-283181-003)	CS, BUIC	PhD (Maths)	Dr. Rizwan ul Haq	Convection Analysis in Closed Cavity via FEM Approach	External Examienrs: 1. Dr. Sohail Nadeem, QAU 2. Dr. Zahid Iqbal, AIOU 3. Dr. Noreen Sher Akbar, NUST 4. Dr. Nasir Ali, IIU Internal Examiners 1. Dr. Talat Sharafat Rehmani, BUKC 2. Dr. Muhammad Ramzan
5.	Joddat Fatima (01-284152-001)	CS, BUIC	PhD (CS)	Dr. Amina Jameel	Localization of Vertebrae and Deformity Analysis using Digital Spinal Cord Images	External Examienrs: 1. Dr. Amanullah Yasin, Air University 2. Dr. Hafiz Adnan Habib, UET Taxila 3. Dr. Farhan Riaz, NUST 4. Dr. Khurram Khurshid, IST Internal Examiners: 1. Dr. Samabia Tehsin, BUKC 2. Dr. Shehzad Khalid
6.	Zainab Yousaf (01-284152-002)	CS, BUIC	PhD (CS)	Dr. Amina Jameel	Design Of Deep Learning and Shape Based Models for Tuberculosis Detection Using Diagnostic Radiology	External Examienrs: 1. Dr. Arsalan Shaukat, NUST 2. Dr. Asifullah Khan, PIEAS 3. Dr. Syed Aun Irtaza, UET Taxila 4. Dr. Ayaz Hussain, QAU Internal Examiners: 1. Dr. Humera Farooq, BUKC 2. Dr. Sumaira Kausar
7.	Muhammad Irfan (02-282142-003)	E&ES, BUKC	PhD (ES)	Dr. Yasmin Nergis (Dr. Mehrab Khan & Dr. Muhammad Shafiq)	Hydro Climatological Studies of Gilgit River Basin, Pakistan	External Examiners: 1. Dr. Moazzam Ali Khan 2. Dr. Zafar Iqbal Shams 3. Dr. Gul-e-Rana 4. Dr. Suraiya Jabeen Internal Examiners: 1. Dr. Said Akbar Khan, BUIC 2. Dr. Humera Farah, BUIC

8.	Mohammad Idrees	E&ES, BUKC	PhD (ES)	Dr. Yasmin Nergis	Climate change risk assessment in coastal	External Examiners:
	(02-282142-002)				areas of Karachi Pakistan	1. Dr. Ahmed Hussain
						2. Dr. Zafar Iqbal Shams
						3. Dr. Moazzam Ali Khan
						4. Dr. Gul e Rana
						Internal Examiners:
						1. Dr. Humera Farah, BUIC
						2. Dr. Asma Jamil