

Minutes of the Meeting

20 Meeting of Faculty Research Committee (FRC)

held on

**31st October, 2023
Through VLC**



Faculty of Engineering Sciences

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Reference Designators & Terms

These designators/terms are meant to introduce clarity, standardization and ease of reference while consulting or referring to this document.

Item Number	<u>Item oonn</u> Where oo = ordinal sequence of FRC Meeting nn= serial number of item in that FRC Meeting Example: Item 1712 means Item No. 12 of 17 FRC Meeting
Decision on a New Item	<u>Decision oonn</u> Example: Decision 1712 means Decision on Item 1712 Example: Decision 1712.b means Decision 1712, Clause 'b' Example: Decision 1712.b.2 means Decision 1712, Clause 'b', sub-clause '2'
Decision on a Previous Item	<u>Decision o₂(oonn)</u> Example: Decision 17 (1512) means decision taken by 17 FRC Meeting on the prevision review item 1512 Example: Decision 17 (1512) b means decision taken by 17 FRC Meeting on the prevision review item 1512 clause 'b' Example: Decision 17 (1512) b.3 means decision taken by 17 FRC Meeting on the prevision review item 1512 clause 'b' sub clause '3'
Action	Authority, Entity, Official, Person, Unit, Dept, Office, etc. required to implement the decision
Responsibility	The supra single Authority, Entity, Official, Person, etc required to: <ul style="list-style-type: none">a. Coordinate the actions taken by the Authorities, Entities, Officials, Persons, Units, Depts., Offices listed against the actionb. Report to the Council the progress on the matter, through periodic progress reports and at the meeting of the Council.c. Be overall responsible to the Competent Authority, and the Council, for the case/issue/point/item he or she has been made responsible for.
Deadlines	Any time period deadlines shall count from the date of issue of the minutes. Time period in days shall imply working days.

Acronyms & Abbreviations

Insert List of Acronyms & Abbreviations used in this document.

Bahria University Head Office		
1.	Prof. Dr. Faisal Bashir _____	Dean ES
		Chair
Bahria University Islamabad Campus		
2.	_ Dr. Shehzad Khalid _____	Principal/HoD CE Dept.
		Member
3.	_ Dr. Arif ur Rahman _____	HoD CS Dept.
		Member
4.	_ Dr. Junaid Imtiaz _____	HoD, EE Dept.
		Member
5.	_ Dr. Said Akbar Khan _____	HoD EES Dept.
		Member
6.	_ Dr. Awais Majeed _____	HoD SE Dept.
		Member
7.	_ Dr. Muhammad Ramzan	Professor
		Member
8.	_ Dr. Muhsan Ehsan _____	Ass. Prof. EES Dept.
		Secretary
Bahria University Karachi Campus		
9.	_ Dr. Sohaib Ahmed _____	Principal BSEAS
		Member
10.	_ Dr. Syed Safdar Ali _____	HoD CS Dept.
		Member
11.	_ Dr. Mukesh Kumar Maheshwari _____	HoD EE Dept.
		Member
12.	_ Dr. Salma Hamza _____	HoD EES Dept.
		Member
13.	_ Dr. Osama Rehman _____	HoD SE Dept.
		Member
Bahria University Lahore Campus		
14.	_ Dr. Khawaja Qasim Maqbool _____	HoD CS Dept.
		Member

Proceedings

1. The proceedings commenced at 11.30 hrs on 31st October, 2023 with recitation of few verses from the Holy Quran and Darood Shareef ﷻ.

Opening Remarks

2. Chair FRC welcomed the participants at the three campuses.

Confirmation of the Minutes of 19th FRCM held on 24 July 2023

3. After soliciting the approval of the Chairperson FRC, the Minutes of the 19th FRC were communicated to all members and non-member participants.
4. Following typo mistakes were identified and recommended for needful incorporation in the Minutes of 19th FRCM:

Mr. Kashif Naeem (01-262201-008) is a student of MS CS from CS Dept BULC who has carried out his research thesis under the supervision of Dr. Iram Noreen. DRC is requested to correct the following minutes of said FRC in which internal examiner name was typed incorrect.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Internal Examiner	External Examiner
1	Kashif Naeem (03-243212-003)	Dr. Iram Noreen	MS CS	Dr. Iram Noreen	Dr. Faiza Iqbal

5. The minutes of the 19th FRCM with aforementioned amendments were, therefore, tabled for confirmation.

Decision:

6. The minutes of the 19th FRCM with following amendments were confirmed by the committee. FRC correction of Mr. Kashif Naeem case from minutes of the 19th FRCM.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Internal Examiner	External Examiner
1	Kashif Naeem (03-243212-003)	Dr. Iram Noreen	MS CS	Dr. Ansar Siddique	Dr. Faiza Iqbal

7. Point dropped.

New Items (10)

Item No. 2001: Appointment of Examiners for PhD Proposal Defense	
Sponsor: HoD (CS BUIC E-8, E&ES BUIC H-11)	Referral Authority: DRC

Summary of the Case:

8. Selection of the Internal and External Examiners for PhD Proposal Defense of Faculty of Engineering Sciences as recommended by respective DRCs.

Discussion:

9. Candidates listed in **Annex Ia** and enrolled in PhD programs have cleared their comprehensive exam and are ready to appear for the PhD proposal defense. FRC was requested to appoint appropriate panels of examiners to conduct the PhD proposal defense of the candidates.

Decision 2001:

10. Following decisions were undertaken by FRC:

- a. On recommendations of the respective DRCs, FRC appointed panels of examiners to conduct the PhD Proposal Defense of the presented candidates. The approved examination panels are listed in **Annex Ib**. Departments were instructed to ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

Action Required	Action By	Responsibility
Implementation of Decision – a	PGP Coordinators	Concerned HoDs

11. Point Dropped.

Item No. 2002: Inclusion of Experts in the list of Local External Examiners	
Sponsor: HoD CS, BUIC E-8	Referral Authority: DRC

Summary of the Case:

12. Inclusion of Experts in the list of Local External Examiners of Faculty of Engineering Sciences as recommended by respective DRCs.

Discussion:

13. Profiles of active researchers in various peer universities/organizations were presented to the FRC for inclusion in the pool of local external examiners to evaluate MS/PhD thesis.

Decision 2002:

14. Following decisions were undertaken by FRC:

- a. FRC approved the examiners listed in **Annex II** for MS for inclusion in the pool of local external examiners.

Action Required	Action By	Responsibility
Implementation of Decision – a	Concerned PGP Coordinator	Concerned HoD

15. Point Dropped.

Item No. 2003: Inclusion of Experts in the List of Foreign Evaluators	
Sponsor: HoD CS, BUIC E-8	Referral Authority: DRC

Summary of the Case:

16. Inclusion of Expert in the List of Foreign Evaluator of Faculty of Engineering Sciences as recommended by respective DRC.

Discussion:

17. Profiles of international researcher was presented for recommendation to the HERC to include them in the pool of foreign evaluators to review PhD thesis.

Decision 2003:

18. Following decisions were undertaken by FRC:

- a. FRC approved the profile of the presented researcher for recommendation to the HERC to include them in the pool of foreign evaluators. Profile summaries of the experts are presented in **Annex III**.

Action Required	Action By	Responsibility
Implementation of Decision – a	Concerned PGP Coordinator	Concerned HoD

19. Point Dropped.

Item No. 2004: Appointment of Supervisors/ Co-Supervisor of PhD ScholarsSponsor: **HoD (CS BUIC E8, EE BUIC H-11, SE BUIC H-11)**Referral Authority: **DRC****Summary of the Case:**

- 20.** Recommendation of Supervisors and Advisory Committees for PhD Candidates of Faculty of Engineering Sciences as recommended by respective DRCs.
- 21.** HoD CS, BUIC E-8 Campus presented the case of Mr. Qasim – PhD CS student, who was working in the domain of document analysis under the supervision of Dr. Imran Siddiqi - an expert in document analysis. After Dr. Imran resignation from the university, the CS Dept did not have an expert in Document Analysis, therefore, Mr Qasim was placed under the supervision of Dr. Sumaira Kausar - an expert of Computer Vision. Dr. Samabia Tehsin - a specialist in document analysis, joined CS Dept BUIC E-8 Campus in Fall 2023 and she has agreed to supervise the PhD student. Dr. Sumaira (who is already supervising 2 PhD students) has given her consent for a change of Supervisor. PhD Scholar Mr. Qasim Mehmood (01-284221-001) may please be assigned Dr Samabia Tehseen as PhD Supervisor.
- 22.** HoD EE, BUIC H-11 Campus presented the case for a change of Supervisor of PhD (EE) Scholar Adnan Yaqoob Salik, who was under the supervision of Prof Dr Atif Raza Jafri (resigned from BU). The departmental DRC has requested the appointment of Dr Shehzad Khalid – Principal BSEAS H-11 Campus, as the new supervisor of PhD Scholar Mr. Adnan Yaqoob Salik (01-281192-001).
- 23.** HoD CS BUIC E-8, HoD SE BUIC H-11, BUKC H-11 Campus presented the case of appointment of supervisor and of advisory committee member of PhD (SE) Scholars Mr. Shah Hussain (01-281232-001). The student has passed the entrance test and cleared interview for admission in PhD (SE) program. The student has started his Ph.D. from Fall 2023 and is enrolled in course work.

24. Discussion:

- 25.** Cases of PhD scholars in various departments of ES were presented for appointment of supervisors and advisory committees. The details of PhD students and supervisor appointments are listed in **Annex-IV**.

Decision 2004:

- 26.** Following decisions were undertaken by FRC:
- On recommendations of the respective DRCs, FRC approved the appointment of supervisors for Qasim Mehmood (01-284221-001) PhD CS BUIC E-8, and Adnan Yaqoob Salik (01-281192-001) PhD EE BUIC H-11, as Annex-IV.
 - For PhD Scholars of Fall 2023, as per new PG rules inline with HEC GEP 2023, approval is required from the Relevance Committee. The FRC has recommended forwarding of all Fall 2023 cases to the said committee, as per Annex-IV.

Action Required	Action By	Responsibility
Implementation of Decision – a	PGP Coordinators	Concerned HoDs

27. Point Dropped.**Item No. 2005: Recommendation of Examiners for PhD Final Thesis Defense (FTD)**Sponsor: **HoDs**Referral Authority: **DRC****Summary of the Case:**

- 28.** Recommendation of Examiners for PhD Final Thesis Defense (FTD) for PhD Candidates of Faculty of Engineering Sciences as recommended by respective DRCs.

Discussion:

- 29.** 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.
- 30.** HoD of CS at BUIC E-8 Campus presented the case of Mr. Shehla Saif (01-284181-002), who has successfully defended her ITD and her thesis is ready under the foreign evaluation process. Subject to the successful foreign evaluation, FRC is requested to recommend the examiners for final thesis defense.
- 31.** HoD of EE at BUIC presented the case of Maryam Iqbal Shah Taizi (01-281171-003) – a FM of EE Dept, who is enrolled in PhD (EE) program, under the supervision of Dr. Asif Mahmood Mughal – Adjunct Faculty. DRC suggested the Final Thesis Defense Examiners as per Annex-V to evaluate the thesis of PhD (EE) candidate.

Decision 2005:

- 32.** Following decisions were undertaken by FRC:

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

Action Required	Action By	Responsibility
Implementation of Decision – a	PGP Coordinators	Concerned HoDs

- 33.** *Point Dropped.*

Item No. 2006: Extension in Time Bar of PhD Scholars	
Sponsor: HoDs	Referral Authority: DRC

Summary of the Case:

- 34.** The presented cases for Extension in Time Bar of PhD Scholars of Faculty of Engineering Sciences are recommended by respective DRCs.

Discussion:

- 35.** HoD EE, BUKC presented the case of Engr. Muhammad Faisal Siddiqui (02-281172-001) enrolled as PhD scholar in Fall 2017. He has submitted his thesis on CMS. The candidate has completed the publication requirement and has published one impact factor journal publication. The case is presented in FRC for one year extension.
- 36.** HoD E&ES, BUIC presented the case of PhD scholar of Geology, Muhammad Nofal Munir (01-286172-001) who has published one research article from his thesis in a W-Category Journal. He has submitted his thesis on CMS. The case is presented in FRC for one year extension.
- 37.** HoD E&ES, BUIC presented the case of PhD scholar of Geology, Furqan Aftab (01-286172-003), who has published one research article from his thesis in a W-Category Journal. He has submitted his thesis in CMS. In this regard, the case is presented in front of the Respected FRC Chair. The department/ DRC committee has recommended a one-year extension in the program duration.
- 38.** HoD E&ES, BUIC presented the case of PhD scholar of Geology, Adeeb Ahmed (01-286172-005), who has published one research article from his thesis in a X-Category Journal. He has submitted his thesis on CMS. In this regard, the case is presented in front of the FRC, the department/ DRC committee has recommended a one-year extension in the program duration.
- 39.** HoD E&ES, BUIC presented the case of PhD scholar of Geology, Muhammad Asif Khan (01-286172-007), who has published one research article from his thesis in a W-Category Journal. He has submitted his thesis on CMS. In this regard, the case is presented in front of the FRC, the department/ DRC committee has recommended a one-year extension in the program duration.

40. HoD E&ES, BUIC presented the case of PhD scholar of Geology, Mr. Adil Naseer (01-286172-004), who has submitted his thesis for ITD on July 07, 2023. His plagiarism report is submitted by his supervisor Prof. Dr. Tahseen Ullah Khan that is 13%. The scholar submitted his research paper to Journal Geo-environmental Disasters, Springer on June 08, 2023, and the submitted paper is in review phase. He submitted application endorsed by his supervisor for considering his thesis for ITD without published paper.
41. HoD E&ES, BUIC presented the case of PhD scholar of Environmental Science (ES), Ms Aneela Khan (01-286172-002), who has published a research paper "X" category Journal "Arabian Journal of Geosciences" on May 03, 2023. The scholar has not been able to submit her thesis for ITD and submitted applications endorsed by her supervisor to allow the extra time to complete and submit her thesis on the CMS.
42. HoD E&ES, BUIC presented the cases of Ms Zainab Wahab (01-286172-008) PhD scholars of Environmental Sciences, who has published a research paper "X" category Journal "Arabian Journal of Geosciences" on January 05, 2023. She has not been able to submit her thesis for ITD and submitted applications endorsed by her supervisor to allow the extra time to complete and submit her thesis on the CMS.
43. HoD EE, BUKC presented the cases of Mr. Waqar Ali (01-286172-009) scholar of Environmental Sciences has published a research paper Frontiers in Environmental Science, HEC W category Journal, published on December 15, 2022. The PhD student has not submitted his thesis for ITD. The scholar submitted applications endorsed by his supervisor to allow few months extra time to complete his research.
44. The DRC's have recommended the one-year extension (7th year) for the above-mentioned PhD Scholars (Serial 35 to Serial 43). The PhD scholars from Serial 35 to Serial 40 have completed their research and have submitted PhD Thesis. However, three PhD scholars of E&ES Dept (Aneela Khan 01-286172-002, Zainab Wahab 01-286172-008, and Waqar Ali 01-286172-009) have not submitted their thesis and have requested for 7th year extension from FRC. The FRC chair instructed to constitute a committee to investigate the scholar progress and provided recommendation to the FRC chair within 10 days.
45. HoD E&ES constituted a committee of Senior FMs which meet on 10 Nov 2023 at Petrographic Lab BUIC H-11. The meeting was chaired by of HOD E&ES BUIC and comprised of Dr. Muhsan Ehsan, Dr. M. Iqbal Hajana, Dr. Aansa Rukya Saleem, Dr. Tahseenullah Khan, Dr. Humera Farah, and Dr. Asma Jamil. The committee meet with the supervisors and the PhD scholars to investigate the reasons for delay in thesis submission along with possible thesis submission deadline. The students informed that delay in thesis submission was due to non-availability of Lab facilities to perform their research during COVID time-period. Following information has been provided by the committee:
 - a) Ms. Aneela Khan and Ms Zainab Wahab are doing research under supervision of Dr. Humera Farah, both informed the committee that they are working on their research and will complete the thesis writing and submit to supervisor for final review till end of this month i.e., November 30, 2023. Supervisor Dr. Humera Farah added that she already assigned the task through email on September 07, 2023, to both the scholars to complete their research and submit their draft thesis by the end of this month for review.
 - b) Mr Waqar Ali has submitted the PhD Thesis draft to his supervisor Dr Asma Jamil but didn't appear in front of the committee. His supervisor Dr Asma Jamil informed the committee that scholar has not visited the campus to discuss his thesis corrections / completion as suggested by the advisory committee and supervisor. Apart from content, there are still formatting mistakes that need to be corrected and discussed and its pending due to student unavailability.
 - c) All the committee members agreed that PhD Scholars Ms Aneela Khan, Ms. Zainab Wahab and Mr. Waqar Ali should be given deadline to submit their thesis before the start of next semester (February 09, 2024) along with thesis completion certificate by the supervisor. Non-compliance with the deadline may result in issuance of third unsatisfactory progress report by the supervisors (the three scholars have already received two unsatisfactory progress report). In addition, progress of the said PhD scholars should be presented by the Department in the next FRC meeting.

Decision 2006:

46. Following decisions were undertaken by FRC:

- a. Decisions on the extension cases of presented PhD scholars are summarized in **Annex-VI**.

Action Required	Action By	Responsibility
Implementation of Decision – a	PGP Coordinators	Concerned HoDs

47. Point Dropped.

Item No. 2007: Approval of Title of PhD Thesis – PhD Scholar	
Sponsor: HoD, EES, BUIC	Referral Authority: DRC

Summary of the Case:

48. Recommendation of approval of the Title of PhD Thesis – PhD Scholar of Faculty of Engineering Sciences as recommended by respective DRC.

49. When the examinees were appointed for proposal defense, only researcher theme approved by FRC. So, now the Dept. initiated the case in front of FRC for their approval of the titles.

Discussion:

50. HoD EES presented the case of PhD scholar who successfully passed the PhD Proposal Defense and the examiners and Pro Rector (RIC) approved the following research titles. Details of student, and approved titles as well as the same updated on CMS are summarized in the following.

SNo.	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Title of Thesis
1	Syed Maqsood Ali Gilani (01-286202-001)	PhD Geophysics	Dr. Muhammad Iqbal Hajana	A sequence stratigraphic model for Lower Cretaceous reservoir sands distribution in Tando Allah Yar Area, Lower Indus Basin, Pakistan
2	Umar Manzoor (01-286202-002)	PhD Geophysics	Dr. Muhsan Ehsan	Seismic driven thin reservoir facie classification using advanced machine learning algorithms: A research on Lower Ranikot Sandstone Reservoir, Kirthar Foldbelt, Lower Indus Basin, Pakistan
3	Kamran Younas (01-286202-004)	PhD ES	Dr. Asma Jamil	MANAGEMENT OF NOXIOUS WEED (PARTHENIUM HYSTEROPHORUS) THROUGH BIOCHAR AND REMEDIATION OF SELECTED ORGANIC AND INORGANIC POLLUTANTS IN SYNTHETIC AND INDUSTRIAL EFFLUENTS

51. Decision 2007:

52. Following decision was undertaken by FRC:

- a. FRC approved the research title of the presented scholars. The approved title and details of students are listed in the following.

SNo.	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Title of Thesis
1	Syed Maqsood Ali Gilani (01-286202-001)	PhD Geophysics	Dr. Muhammad Iqbal Hajana	A sequence stratigraphic model for Lower Cretaceous reservoir sands distribution in Tando Allah Yar Area, Lower Indus Basin, Pakistan

2	Umar Manzoor (01-286202-002)	PhD Geophysics	Dr. Muhsan Ehsan	Seismic driven thin reservoir facie classification using advanced machine learning algorithms: A research on Lower Ranikot Sandstone Reservoir, Kirthar Foldbelt, Lower Indus Basin, Pakistan
3	Kamran Younas (01-286202-004)	PhD ES	Dr. Asma Jamil	MANAGEMENT OF NOXIOUS WEED (PARTHENIUM HYSTEROPHORUS) THROUGH BIOCHAR AND REMEDIATION OF SELECTED ORGANIC AND INORGANIC POLLUTANTS IN SYNTHETIC AND INDUSTRIAL EFFLUENTS
Action Required			Action By	Responsibility
Implementation of Decision – a			None	None

53. Point Dropped.

Item No. 2008: Cancellation of the Candidacy of PhD Scholar	
Sponsor: HoD, EE, BUKC	Referral Authority: DRC

Summary of the Case:

54. Recommendation for the cancellation of the candidacy of PhD Scholar of EE Department BUKC, Faculty of Engineering Sciences as recommended by respective DRC.

Discussion:

55. Mr. Rana Saeed Ahmad (02-281181-001) is enrolled as Ph.D. scholar in the Department of EE at BUKC and is working under the supervision of Dr. Muhammad Raza. The details of the student are as follows:

Name (Enrolment #)	Program	Thesis Title	Supervisor	Co-Supervisor
Mr Rana Saeed Ahmad (02-281181-001)	PhD EE	Modelling and Control of Distribution Units of a Microgrid	Dr. Muhammad Raza	None

56. The scholar has received three unsatisfactory responses from his supervisor in the following quarters:

- December 2021-February 2022
- December 2022-February 2023
- May 2023- August 2023

Following are the remarks of the supervisor in Quarterly Progress Reports.

Quarterly Progress Report	Supervisor Comments
	The progress of Mr. Rana Saeed is very slow, and I found him difficult to comprehend the PhD research. He has been advised to write a review article in the beginning of his research. Through this activity, he must have thorough understanding and knowledge of his research and be able to identify the research gap. However, he could not understand and determine the system to be studied, the problem to be solved, and

December 2021-February 2022	<p>identify the methodology to solve the problem. The article is still at the beginning state and his plagiarism is about 30%.</p> <p>Furthermore, his progress on the guideline provided is very slow and unsatisfactory. His revised submitted research objective is same as before and more ambiguous. A lot of work is required at his part.</p>
December 2022-February 2023	<p>It is very disappointing that the scholar has submitted an unapproved article in a journal without informing me. The submitted article possesses 39% plagiarism and has my name that is damaging for my reputation. It is surprising that the scholar has submitted a preliminary version of the article that contains my review comments as well. Although many changes were suggested to improve the article but none of them is incorporated.</p> <p>Furthermore, He has not developed the desired skills in power system modelling and has not shown any improvement in mathematical formulation of a microgrid.</p> <p>Thus, his progress in this quarter is unsatisfactory.</p>
May 2023-August 2023	<p>Scholar performance is very dreadful. He has not developed any skills of power system modelling and has not shown any improvement in mathematical formulation of a microgrid. A lot of time and leverage has been given to him to develop the desired skills to achieve the thesis goals, however he failed to learn the fundamentals of DC-AC and DC-DC converter modelling for power system analysis.</p> <p>Yet again, he disappoints me with his action by ignoring my instruction and again submit an unapproved and incomplete article in the journal. I have no knowledge of the submitted article quality and it was submitted without my consents.</p> <p>It is obvious that the scholar has no potential to continue the PhD research. Thus, his progress is unsatisfactory.</p>

57. The Department of Electrical Engineering at BUKC had a meeting on 3rd May 2023 (after 2nd unsatisfactory) with the scholar, supervisor, and advisory committee. Following are the remarks from the advisory committee:

- a. The scholar needs to specify the modeling technique as it's more general and highlight the major contribution.
- b. Objectives are not clear with the milestones that need to be achieved.
- c. It is not clear exactly what the scholar is trying to control, there needs to be some output that requires control, and based on that objective must be set.
- d. The use of the ETAP built-in system is just an example and the use of the ETAP is not a platform for research rather it's a commercial software where a controller cannot be designed, and optimization cannot be done.
- e. Therefore, a suitable platform must be used to address the research-related questions.

In response, the scholar gave the following input:

- f. Help and support to overcome the problems and hurdles presented, to complete his research work.
- g. Allow to freeze his semesters till June 2024 without initiation of quarterly reports so that, instead of being online at a distance due to official commitments, he should be having an opportunity to work in meetings with supervisor/ advisory committee experts once he will come back to Pakistan.

58. In addition, to the above stated information, Dean ES asked both HoD EE BUKC and Principal BSEAS BUKC regarding any possibility of

59. Decision 2008:

60. Following decision was undertaken by FRC:

- a. FRC recommended the cancellation of the PhD candidacy of Mr. Rana Saeed Ahmad (02-281181-001) based on three unsatisfactory progress reports given by the supervisor.

Action Required	Action By	Responsibility
Implementation of Decision – a	Dean, HOD	Dean, HOD

61. Point Dropped

Item No. 2009: Constitution of “Relevance Assessment Committee (RAC)” for appointment of PhD Supervisor - FoES	
Sponsor: Dean-ES	Referral Authority: FRC

Summary of the Case:

62. In accordance with HEC GEP 2023 and BU adoption of the said policy, RAC must be established for determining the supervisor’s relevance with respect to the PhD student’s research domain.

Discussion:

63. The relevance committee should be chaired by the Dean of the respective faculty, members should include QEC, and two external experts (related to the topic & domain of PhD students’ research). Overall, the committee should have a minimum of 5 members.

64. The following RAC for FoES was presented:

Dean ES	Chair
Dir QA	Member
Dir PGP	Member
Principals of BSEAS	Member(s)
Concerned HoD	Member
FRC secretary	Member / Secretary RAC
2 x External Experts	Member (Associate Professor / Professor)

Decision 2009:

65. Following decisions were undertaken by FRC:

- a. The RAC Committee as per Sr. 62 is recommended for FoES and should be forwarded to HERC for approval.

Action Required	Action By	Responsibility
Implementation of Decision – a	Secretary FRC	Dean ES

Item No. 2010: Correction of PhD Thesis Title	
Sponsor: HoD CS, BUIC E-8	Referral Authority: DRC

66. Ms Saneeha Khalid (01-284172-002) is a PhD CS scholar under supervision of Prof Dr. Faisal Bashir. The student had her successful proposal defense with the title “Obfuscated Android Malware Detection using Dynamic Analysis Techniques” on 25th February 2020. However, the title was not correctly recorded in the 10th FRC, instead the topic at the time of admission was written. It is therefore requested to correct the error.

67. Following decision was undertaken by FRC:

- a.** FRC approved the research title correction of the presented scholar. The approved title and details of the student is listed as follows:

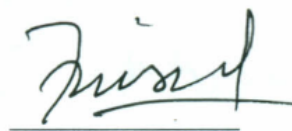
S. No.	Name	Supervision	Title
1	Saneeha Khalid (01-284172-002)	Prof Dr. Faisal Bashir Hussain	Obfuscated Android Malware Detection using Dynamic Analysis Techniques

68. Point Dropped

Closing of the Meeting

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

70. The meeting concluded at 1645 hrs.



Prof. Dr. Faisal Bashir Hussain
Dean ES

Annex's

Annex-Ia: Proposed Examiners for PhD Proposal Defense

S. No	Name (Enrollment #)	Program	Thesis Title	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Athar Waqar Alvi (01-284221-002)	PhD (CS)	Lightweight Framework for Auto Management of Digital Certificates in Industrial Internet-of-Things Network	Dr. Moneeb Gohar		Dr. Majid Iqbal Dr. Sajjad Khan Dr. Muazzam Khan Khattak Prof Dr. Kashif Kifayat Dr. Khalil Afzal Dr. Naveed Riaz
2	Qasim Mehmood (01-284221-001)	PhD (CS)	Document Visual Question Answering to Interpret Multiple Modalities in Document Images	Dr. Sumaira Kausar (Dr. Imran Siddiqi)	Dr. Humera Farooq (BUKC_CS) Dr. Hina Shakir BUKC_CS	Dr. Waseem Shahzad Dr. Fahad Tahir Dr. Akhtar Jamil Dr. Amanullah Yasin
3	Zohaib Naseer (01-286222-004)	PhD (Geophysics)	A ROBUST APPROACH USING MACHINE LEARNING AND ARTIFICIAL NEURAL NETWORKING ALGORITHMS IN CHARACTERIZING THE SAND UNITS OF LUMSHIWAL FORMATION IN PUNJAB PLATFORM, PAKISTAN	Dr. Muhsan Ehsan	-	Dr. Zulfiqar Ahmad Dr. Mumtaz M. Shah Dr. Muhammad Irfan Ehsan Dr. Pervaiz Khalid Dr. Tahir Azeem Dr. Anees Ahmed Bangash

4	Aisha Khaled Chaudhri (01-286222-001)	PhD ES	Biochar Nanocomposites for Soil Remediation and Its Application for The Removal of Emerging Pollutants	Dr. Aansa Rukya Saleem	Dr. Salma Hamza (BUKC) Dr. Yasmin Nergis (BUKC)	Dr Azeem Khalid Dr Tahir Hayat Malik Dr Mahtab Ahmad Dr. Rukhsanda Aziz
5	Kamran Siddique (01-286222-002)	PhD ES	Enhanced remediation of Textile wastewater by intensification of Floating Treatment Wetlands	Dr. Aansa Rukya Saleem	Dr. Salma Hamza (BUKC) Dr. Yasmin Nergis (BUKC)	Dr Tahir Hayat Malik Dr Asad Ghufraan Dr Sher Jamal Dr Shahid Mahmood
6	Shahzad Naveed (01-286222-003)	PhD ES	Quantification of Greenhouse Gases Emission from Livestock and Comparison of Conventional and Decarbonizing on-Farm Practices in Punjab, Pakistan	Dr. Said Akbar Khan	-	Dr. Javed Nawab Dr. Said Muhammad Dr. Syed Jabir Hussain Dr. Mazhar Iqbal Dr Asad Ghufraan Prof Dr. Shaukat Iqbal

Annex-Ib: Appointment of Examiners for PhD Proposal Defense

S. No	Name (Enrollment #)	Program	Thesis Title	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Athar Waqar Alvi (01-284221-002)	PhD (CS)	Lightweight Framework for Auto Management of Digital Certificates in Industrial Internet-of-Things Network	Dr. Moneeb Gohar	-	Dr. Majid Iqbal Dr. Sajjad Khan Dr. Muazzam Khan Khattak
2	Qasim Mehmood (01-284221-001)	PhD (CS)	Document Visual Question Answering to Interpret Multiple Modalities in Document Images	Dr. Sumaira Kausar (Dr. Imran Siddiqi)	Dr. Humera Farooq (BUKC_CS)	Dr. Waseem Shahzad Dr. Fahad Tahir
3	Zohaib Naseer (01-286222-004)	PhD (Geophysics)	A ROBUST APPROACH USING MACHINE LEARNING AND ARTIFICIAL NEURAL NETWORKING ALGORITHMS IN CHARACTERIZING THE SAND UNITS OF LUMSHIWAL FORMATION IN PUNJAB PLATFORM, PAKISTAN	Dr. Muhsan Ehsan	-	Dr. Zulfiqar Ahmad Dr. Mumtaz M. Shah Dr. Muhammad Irfan Ehsan
4	Aisha Khaled Chaudhri (01-286222-001)	PhD ES	Biochar Nanocomposites for Soil Remediation and Its Application for The Removal of Emerging Pollutants	Dr. Aansa Rukya Saleem	Dr. Yasmin Nergis (BUKC)	Dr Azeem Khalid Dr Tahir Hayat Malik
5	Kamran Siddique (01-286222-002)	PhD ES	Enhanced remediation of Textile wastewater by intensification of Floating Treatment Wetlands	Dr. Aansa Rukya Saleem	Dr. Salma Hamza (BUKC)	Dr Tahir Hayat Malik Dr Asad Ghufraan

6	Shahzad Naveed (01-286222-003)	PhD ES	Quantification of Greenhouse Gases Emission from Livestock and Comparison of Conventional and Decarbonizing on-Farm Practices in Punjab, Pakistan	Dr. Said Akbar Khan	-	Dr. Javed Nawab Dr. Said Muhammad Dr. Syed Jabir Hussain
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Annex-II: Inclusion of Experts in the list of Local External Examiners for MS

S. No	Name	Designation	Affiliation	Research Area(s)	Sponsored By
1	Dr Momina Moetesum	Assistant Prof	SEECS NUST	Artificial Intelligence, Deep Learning, Computer Vision	CS, BUIC
2	Dr. Muhammad Imran	Assistant Prof	SZABIST Islamabad	Machine Learning, Image Processing	CS, BUIC

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

S. No	Name	Designation	Affiliation	Post-PhD Experience	Research Area(s)	Sponsored By
1	Dr. Ebrahim Momoniat	Professor	University of Johannesburg, South Africa (QS World University Ranking: 306)	23 years	Applied Mathematics	CS, BUIC

Annex-IV: Appointment of Supervisors

S. No.	Name (Enrollment #)	Program	Research Topic	Research Domain	Dept. / Campus	Supervisor (Co-Supervisor)
1.	Qasim Mehmood (01-284221-001)	PhD (CS)	Document Visual Question Answering to Interpret Multiple Modalities in Document Images	Artificial Intelligence, Deep Learning, Document Images	CS BUIC E-8	Dr. Samabia Tehsin (Dr. Imran Siddiqi)
2.	Adnan Yaqoob Salik (01-281192-001)	PhD (EE)	Efficient Hardware Architecture for Real-Time AI Implementation	Artificial Intelligence, Deep Learning	EE BUIC H-11	Dr. Shahzad Khalid (Dr. Imran Siddiqi)
3.	Shah Hussain (01-281232-001)	PhD (SE)	Research Topic: Model Based Penetration Testing Framework for Edge Computing Devices	Software Testing, Cyber Security, Deep Learning	SE BUIC H-11	Dr. Tamim Ahmed Khan
4.	Nasir Ali (01-284232-003)	PhD (CS)	A Novel Hybrid Framework for Detecting Fileless Crypto-Jacking Malware	Malware Analysis	CS BUIC H-11	Dr. Moneeb Gohar
5.	Muhammad Akram Sahi (01-284232-006)	PhD (CS)	Intelligent Resource Management in Software Defined Networks via SDN Controller	Networks	CS BUIC E-8	Dr. Khurram Ehsan
6.	Lala Rukh Majeed (01-284232-002)	PhD (CS)	Intelligent TRUST Framework for Secure and Reliable Internet of Things (IoT)	Cyber Security and S/W Quality	CS BUIC E-8	Dr. Saba Mahmood
7.	Qadeer Hashir (01-284232-004)	PhD (CS)	AI-based Techniques for Analyzing Health-related Challenges, especially Drug-to-	Artificial Intelligence, Machine Learning, Deep Learning,	CS BUIC E-8	Dr. Muhammad Asfand e yar

			Drug Interaction and its Exorbitant Effects	Natural Language Processing		
8.	Umair Saeed (01-284232-005)	PhD (CS)	Non-Invasive Early Diagnosis of Diseases using Computer Vision Techniques	Computer Vision Application in Medical Imaging Data	CS BUIC E-8	Dr. Sumaira Kausar
9.	Atteq ur Rehman (01-284232-001)	PhD (CS)	Performance Efficient, Edge based distributed anomaly detection framework for smart devices	Intrusion Detection, IoT networks	CS BUIC H-11	Dr. Moneeb Gohar
10.	Muhammad Rizwan Sarfarz (01-284232-007)	PhD (CS)	Security Issues of QUIC and Solutions	Information Security	CS BUIC H-11	Dr. Moneeb Gohar
11.	Zulfiqar Ali (01-283232-001)	PhD (CS)	Blade Coating Phenomena of Lubricated non-Newtonian Polymers	Applied Mathematics	CS BUIC E-8	Dr. Jaffer Hasnain

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

SNo.	Name (Enrolment #)	Dept./Campus	Program	Supervisor (Co-Supervisor)	Thesis Title	Recommended Examiners ¹
1	Shehla Saif (01-284181-002)	CS BUIC E-8	PhD (CS)	Dr. Samabia Tehsin	Identification of Synthetically Generated Videos Using Forensic Analysis Techniques	External Examiners Dr. Khurram Khursheed Dr. Waseem Shahzad Dr. Amanullah Yasin Dr. Usman Akram Internal Examiners Dr. Humera Farooq BUKC_CS Dr. Hina Shakir BUKC_SE
2	Maryam Iqbal Shah Taizi (01-281171-003)	EE BUIC H-11	PhD (EE)	Dr. Asif Mahmood Mughal (Dr. Junaid Imtiaz)	Modeling and Control Synthesis of Robotic Digits for Movement Coordination in An Anthropomorphic and Impaired Hand	External Examiners 1. Dr. Noman Naseer-Air University (Internal Defense Examiner) 2. Dr. Ahsan Ali -UET Taxila 3. Dr. Hamid Jabbar-CEME NUST 4. Dr. Mukhtar Ullah-FAST NU

						5. Dr Muhammad Aamir-PAF IAST
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Annex-VI: Extension in Time Bar of PhD Scholars

SNo.	Name	Dept.	Program	Supervisor (Co-Supervisor)	Decision
1	Engr. Muhammad Faisal Siddiqui (02-281172-001)	EE BUKC	PhD (EE)	Dr. Mukesh Kumar	One-year extension granted by the FRC 11-09-2023 to 10-09-2024
2.	Muhammad Nofal Munir (01-286172-001)	EES BUIC	PhD Geology	Prof. Dr. Mohammad Zafar (Dr. Muhsan Ehsan)	One-year extension granted by the FRC 11-09-2023 to 10-09-2024
3.	Furqan Aftab (01-286172-003)	EES BUIC	PhD Geology	Prof. Dr. Mohammad Zafar (Dr. Muhammad Iqbal Hajana)	One-year extension granted by the FRC 11-09-2023 to 10-09-2024
4.	Adeeb Ahmed (01-286172-005)	EES BUIC	PhD Geology	Prof. Dr. Tahseenullah Khan (Dr. Samina Jahandad)	One-year extension granted by the FRC 11-09-2023 to 10-09-2024
5	Muhammad Asif Khan (01-286172-007)	EES BUIC	PhD Geology	Prof. Dr. Tahseenullah Khan (Dr. Aamir Ali)	One-year extension granted by the FRC 11-09-2023 to 10-09-2024
6	Adil Naseer (01-286172-004)	EES BUIC	PhD Geology	Prof. Dr. Tahseenullah Khan	The PhD scholar has submitted his PhD Thesis endorsed by the Supervisor and is therefore given 7 th year extension by the FRC. 11-09-2023 to 10-09-2024
7	Aneela Khan (01-286172-002)	EES BUIC	PhD ES	Dr. Humera Farah (Dr. Muhammad Azmat)	The PhD scholar is given deadline of 30 Dec 2023 for PhD Thesis submission along with completion certificate by the supervisor.

8	Zainab Wahab (01-286172-008)	EES BUIC	PhD ES	Dr. Humera Farah (Dr. Abdul Waheed)	The PhD scholar is given deadline of 30 Dec 2023 for PhD Thesis submission along with completion certificate by the supervisor.
9	Waqar Ali (01-286172-009)	EES BUIC	PhD ES	Dr. Asma Jamil (Dr. Zia Hashmi)	The PhD scholar is given deadline of 30 Dec 2023 for PhD Thesis submission along with a completion certificate by the supervisor.

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