



FRC Meeting Minutes

12th FRC, Faculty of Engineering Sciences
January 01, 2021

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1. The 12th meeting of the Faculty Research Committee of the Faculty of Engineering Sciences (FRC-ES) was held on January 1st, 2021 in the VLC, Quaid Block at 0930 hours.

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. Muhammad Muzammal HoD CS Dept., IC
 - v. Dr. Syed Safdar Ali Rizvi HoD CS Dept., KC
 - vi. Dr. Asim Qureshi HoD CS Dept., LC (For)
 - 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. Tamim Ahmed Khan Snr. Professor, SE Dept, IC
 - xv. 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.

Agenda

4. The agenda items prepared by the respective PGP Coordinators/HoDs were published a week before the meeting.
5. The agenda items presented and the decisions taken are as follows.

Agenda Items

Item 12.1 Appointment of Examiners for MS Thesis Defense

Discussion

6. HoDs from the respective departments of Faculty of Engineering Sciences presented the cases of MS students who have completed their research work and submitted their theses for evaluation. FRC was requested to appoint internal and external examiners for the MS thesis defense of the presented candidates.

Decision

7. On recommendation of the respective DRCs, FRC appointed panels of examiners for the final MS thesis defense of the presented candidates. Details on the candidates and the approved examiners are listed in **Annex-I**.

Action by: Concerned HoDs

Item 12.2 Appointment of Examiners for PhD Proposal Defense

Discussion

8. Candidates listed in **Annex II** 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

9. 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 II**. Departments were instructed to ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

Action by: Concerned HoDs

Item 12.3 Re-appointment of Examiners for MS Thesis Defense

Discussion

10. FRC was informed that two of the previously approved examination panels to conduct MS thesis defense in the dept. of E&ES, IC need to be updated due to non-availability of the exteneral examiners. One of the appointed examiners has moved out of the country while the other passed away.

Decision

11. On recommendation of the respective DRC, FRC appointed the new external examiners to conduct the MS Thesis defense of the candidates listed in **Annex III**.

Action by: HoD EES, IC

Item 12.4 Inclusion of Experts in the list of Local External Examiners

Discussion

12. 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 theses.

Decision

13. FRC approved the examiners listed in **Annex IV** for inclusion in the pool of local external examiners.

Action by: Concerned HoDs

Item 12.5 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 V**.

Action by: Concerned HoDs

Item 12.6 Recommendation of Examiners for PhD Final Defense

Discussion

16. HoD CS, BUIC requested the FRC to recommend appropriate internal and external examiners for the final thesis defense of PhD scholar Ms. Momina Moetesum (01-284142-001).
17. HoD EE, BUKC presented the case of PhD candidate Ms. Naveen Masood (02-281131-001) for recommendation of an appropriate panel of examiners for the final thesis defense of the candidate.

Decision

18. FRC recommended internal and external examiners for the final PhD defense of Ms. Momina Moetesum (01-284142-001) and Ms. Naveen Masood (02-281131-001). The recommendations are listed at **Annex-VI** and will be submitted to the honourable Rector for the selection of final panel.

Action by: Concerned HoDs

Item 12.7 Recommendation of Foreign Evaluators for PhD Candidates

Discussion

19. Cases of PhD scholars listed in **Annex-VII** 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-VII**.

Action by: Concerned HoDs

Item 12.8 Cancellation of the Candidacy of MS Student

Discussion

21. HoD E&ES, BUIC, presented the cases of MS students Abdul Muqeet (01-262171-011) and Nisarullah Khan (01-262172-024) enrolled in the MS Env. Sciences and MS Geophysics programs respectively. Thesis supervisors of the candidates have submitted three unsatisfactory progress reports to the department. The DRC recommended cancellation of candidacy of the candidates.

Decision

22. On recommendation of the DRC and in accordance with paras 25.2 and 24.7.2 of MS/MPhil Rules, FRC approved the cancellation of candidacy of MS students Abdul Muqeet (01-262171-011) and Nisarullah Khan (01-262172-024). Subsequent processing is to be carried out by the department in accordance with the MS/MPhil Rules.

Action by: HoD E&ES, BUIC

Item 12.9 Appointment of Co-Supervisor for PhD Student

Discussion

23. HoD EE, BUIC presented the case of PhD candidate Mr. Adnan Yaqoob Salik (01-281192-001) who is being supervised by Dr. Aatif Raza Jafri. The candidate is preparing his PhD research proposal titled "Design of Application Specific Instruction Set Processor (ASIP) for Error Code and Demodulation



Algorithm”. The intended research includes application of Machine Learning techniques and Dr. Imran Siddiqi from department of CS, BUIC was recommended to be appointed as co-supervisor of the candidate.

Decision

24. FRC approved the appointment of Dr. Imran Siddiqi, department of CS, BUIC as the co-supervisor of PhD scholar Mr. Adnan Yaqoob Salik (01-281192-001).

Action by: HoD EE, BUIC

Item 12.10 Ratification of Extension in Time Bar of PhD Scholar

Discussion

25. HoD EE, BUKC, presented the case of PhD scholar Ms. Hina Shakir (02-281141-001) who is working under the supervision of Dr. Haroon Rasheed and her case for extension was presented in the 11th meeting of the FRC-ES. In accordance with the decision on Agenda Item 11.12, one year extension in the PhD program duration was approved on file. FRC was requested to ratify the extension.

Decision

26. FRC ratified the extension of one year (till Fall 2020) for PhD scholar Ms. Hina Shakir (02-281141-001).

Action by: None

Item 12.11 Extension in Time Bar of PhD Scholars

Discussion

27. HoD CS, BUIC, presented the case of Mr. Ghulam Ali Mirza (Enrolment #: 01-284151-002) who is enrolled in the PhD (CS) program and his thesis is presently under internal evaluation. The candidate completed the extended program duration of six years in Fall 2020 and DRC has requested the FRC to grant him one year extension so that the subsequent processing of thesis can be carried out.
28. HoD EE, IC presented the case of PhD scholar Mr. Shahid Ismail (01-281141-002). The internal thesis defense of the candidate was held on 20th January 2021. The candidate was granted an extension of one year by the FRC and seven years of program duration complete in Fall 2020. FRC was requested to recommend one year further extension in the program duration to the honorable Rector.
29. Ms. Hajra Masood (02-284151-002), enrolled in the PhD (CS) program at BUKC completed six years of enrolment in Fall 2020. The candidate is in process of completing the thesis write-up and two of her research papers are under review in journals. FRC was requested to grant her an extension of one year to complete her research work.
30. HoD EE, BUKC, presented the case of Ms. Hina Shakir (02-281141-001) who is enrolled in the PhD (EE) program. The house was informed that her one year extension completes in Fall 2020 and FRC was requested to recommend one year further extension in the program duration to the honorable Rector.

31. Mr. Muhammad Hussain (02-281151-001) is enrolled in the PhD (EE) program and has completed six years of extended program duration. The candidate has completed the publication requirement for the award of PhD degree and is presently in the phase of thesis writing. FRC was requested to grant one year extension in the PhD program duration of the candidate.
32. HoD SE, BUIC, presented the case of Mr. Zulfiqar Ali (Enrolment #: 01-281151-001) who is enrolled in the PhD (SE) program. Mr Zulfiqar Ali is working under supervision of Dr. Shagufta Henna (on leave). The candidate completed the extended program duration of six years in Fall 2020. His supervisor has recommended extension in PhD duration of 1 year to be granted by FRC. His progress reports in last quarters are also satisfactory. Based on the above DRC has requested the FRC to grant him one year extension so that he can complete his thesis requirements accordingly.

Decision

33. FRC approved an extension of one year and recommendation of extension to the honorable Rector for the concerned candidates. The salient details of the candidates are presented in **Annex-VIII**.

Action by: Concerned HoDs

Item 12.12 Correction of Supervisor Name in Minutes of the 11th FRC-ES

Discussion

34. HoD CE, BUIC informed the house that in recording the decision of Agenda Item 11.3 in the 11th meeting of the FRC-ES, the supervisor name of PhD scholar Ms. Shahida Khanam (01-281182-001) was mistakenly recorded as Dr. Shehzad Khalid. Her supervisor is Dr. Junaid Imtiaz from EE department BUIC. FRC was requested to record the correction.

Decision

35. For “Dr. Shehzad Khalid” read “Dr. Junaid Imtiaz” in the decision on Agenda Item 11.3 in the minutes of the 11th meeting of the FRC-ES.

Action by: None

Item 12.13 Appointment of Supervisors and Advisory Committees – PhD Scholars

Discussion

36. Cases of PhD scholars in various departments of ES were presented for appointment of supervisors and advisory committees.

Decision

37. On recommendations of the respective DRCs, FRC approved the appointment of supervisors and advisory committees of the presented candidates. The details of candidates and appointment are listed in **Annex-IX**.

Action by: Concerned HoDs

Item 12.14 Drop from the PhD Program**Discussion**

38. HoD CS, IC presented the case of PhD scholar Meer Muhammad Khan Jalbani (01-284181-003) who registered in the PhD(CS) program in Spring-2018 under the supervision of Dr Moneeb Gohar. Mr. Jalbani cleared the comprehensive examination in August 2019. The scholar could not get his research proposal approved within stipulated time of one year after comprehensive examination. The candidate did not request for any extension either. FRC was requested to recommend the cancelation of candidacy of the scholar in accordance with Para 25.7 of the PhD Rules.

Decision

39. FRC recommended the cancelation of candidacy of PhD scholar Meer Muhammad Khan Jalbani (01-284181-003). Department of CS, BUIC to process the case in accordance with the PhD rules.

Action by: HoD CS, IC

Item 12.15 Ratification of MS Thesis Defense with Change of Thesis Title**Discussion**

40. HoD EE, BUIC presented the case of Mr. Muhammad Asif Noor (01-244181-011) changed his approved research title from “Discussion on the Accuracy of the Beam Deflector by Electrowetting” to “Paper-based triboelectric nanogenerators (TENGs)”. The change of title was approved on file by the Chair FRC. The candidate has now defended his thesis and FRC was requested to ratify the change of thesis title.

Decision

41. FRC ratified the change of title of MS thesis of Mr. Muhammad Asif Noor (01-244181-011) to Paper-based triboelectric nanogenerators (TENGs).

Action by: None

Item 12.16 Appointment of Co-Supervisor – PhD Scholar SE Dept. BUIC**Discussion**

42. HoD SE, BUIC presented the case of Mr. Ikram ul Haq (01-281142-002) who is enrolled in the PhD (SE) program. FRC was requested to appoint Dr. Adnan Akhunzada as the co-supervisor of the candidate.

Decision



43. It was observed by the members of the FRC that the candidate is approaching the completion of his research and the need of a co-supervisor at this stage could not be justified by the department. The agenda point was therefore dropped.

Action by: None

Item 12.17 Change of Supervisor – PhD Scholars SE Dept. BUIC

Discussion

44. HoD SE, BUIC presented the cases of the following PhD scholars.
- a. Farrukh Shehzad (01-281162-001) supervised by Dr. Shahid Nazir Bhatti
 - b. Zulfiqar Ali (01-281151-001) supervised by Dr. Shagufta Henna
45. The house was informed that the supervisors of both the candidates had proceeded on study leave and did not join back till date. FRC was requested to appoint fresh supervisors for the listed candidates.

Decision

46. FRC approved the following appointments.
- a. Dr. Awais Majeed as principal supervisor of PhD scholar Farrukh Shehzad (01-281162-001), while Dr. Shahid Nazir Bhatti as co-supervisor of the PhD scholar.
 - b. Dr. Kashif Naseer (CS Department) as the principal while Dr. Shagufta Henna as the co-supervisor of PhD scholar Zulfiqar Ali (01-281151-001).

Action by: HoD SE, IC

Item 12.18 Change of Supervisor – MS Student EE Dept. BUIC

Discussion

47. HoD EE, IC presented the case of MS student Ahmad Yousha (01-244191-003). The house was informed that the MS thesis of the student was being supervised by Mr. Jehanzeb Ahmad while Ms. Nadia Imran was the co-supervisor. Since Mr. Jehanzeb Ahmad has been transferred to BULC, DRC proposed Ms. Nadia Imran as the principal while Ms. Maryam Iqbal as the co-supervisor of the student. NOC email from Mr. Jehanzeb Ahmed was also provided for reference.



Decision

48. On recommendation of the DRC, FRC approved the appointment of supervisor and co-supervisor for MS student Ahmad Yousha (01-244191-003). Details of the appointment are listed in the following.

Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Co-Supervisor
AHMAD YOUSHA 01-244191-003	Speed Control of a Permanent magnet synchronous motor using a robust Nonlinear controller	MS EE	Ms. Nadia Imran	Ms. Maryam Iqbal

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

Feb 15, 2021



Annex-I: Appointment of Examiners for MS Thesis Defense

Appointment of Examiners for MS Thesis Defense CE Department, Islamabad Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	S. Muhammad Qasim Ali 01-242181-004	Balanced Energy Efficient Rectangular Routing Protocol for Underwater Wireless Sensor Networks	MSCE	Dr. Shahzad Hassan	Dr. Saleem Aslam (EE)	Dr. S. Hashim Raza



Appointment of Examiners for MS Thesis Defense CS Department, Islamabad Campus

Sr.	Name (Enrolment No.)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1.	Hira Tauseef (01-243182-009)	An effective scheme for extractive summarization of text	MSCS	Dr. Asfand e Yar	Dr. Sumaira Kausar;	Dr. Seemab Latif
2.	Muhammad Imran Hussain Shah (01-243182-026)	Task classification algorithm in fog computing environment	MSCS	Dr. Moazzam Ali Shah	Dr. Arif ur Rehman	Dr. Adnan Zafar
3	Abdul Majid (01-243191-002)	A fast panoptic segmentation network for self-driving scene understanding	MSCS	Dr. Sumaira Kausar	Dr. Imran Siddiqi	Dr. Sadia Shakil
4.	Hamniece Hafeez Siddiqui (01-243191-007)	Location based tracking in wireless sensor network	MSCS	Dr. Moneeb Gohar	Dr. Kashif Naseer;	Dr. Adnan Zafar
5.	Muhammad Ibrahim Khalil (01-243191-008)	Volumetric segmentation of organ at risk from abdominal CT Images: A Deep Learning Approach	MSCS	Dr. Samabia Tehsin (Dr. Abdul Qayyum)	Ms. Momina Moetesum	Dr. Farhan Riaz
6.	Sidra Nasir (01-243191-012)	Identification of scribes from historical manuscripts	MSCS	Dr. Imran Siddiqi	Dr. Sabina Akhtar	Dr. Ayyaz Hussain
7.	Sadia Noureen (01-243191-018)	An approach for scheduling activities using constraint solving techniques	MSCS	Dr. Arif Ur Rehman	Dr. Moazzam Ali	Dr. Arslan Shaukat
8.	Syed Wajahat Ali Shah (01-243191-019)	Gait recognition with occlusion covariance factor	MSCS	Dr. Sumaira Kausar	Dr. Imran Siddiqi	Dr. Waseem Shahzad
9.	Usman Khalid (01-243191-020)	Lawyer intellectual role of information extraction from legal documents	MSCS	Dr Asfand e Yar	Dr. Arif ur Rehman	Dr. Hammad Afzal
10.	Haider Ali (01-249191-002)	Plant disease detection using deep learning	MSDS	Dr. Arif Ur Rehman	Dr. Muhammad Muzammil	Dr. Muhammad Nadeem



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11.	Kinza Tameez (01-249191-004)	Classification and mitigation of distributed denial of service attacks	MSDS	Dr. Kashif Naseer	Dr. Faisal Bashir	Dr. Majid Iqbal Khan
12.	Muhammad Umar Safeer (01-249191-007)	Emotion Analysis on Facial Expression	MSDS	Dr. Arif Ur Rehman	Dr. Sumaira Kausar	Dr. Waseem Shahzad
13.	Saad Habib (01-249191-009)	Time series analysis for financial forecasting	MSDS	Dr. Arif Ur Rehman	Dr. Moazzam Ali	Dr. Asim Munir
14.	Um Kalsoom (01-249191-012)	Predictive analysis to forecast hotspots of terrorist attacks	MSDS	Dr. Imran Siddiqi (Ms. Sahar Arshad)	Dr. Muhammad Muzammil	Dr. Hammad Majeed
15.	Ali Imran (01-249191-014)	Characterisation of negative emotions from handwriting and drawing based tasks	MSDS	Ms. Momina Motesum (Dr. Imran Siddiqi)	Dr. Samabia Tehsin	Dr. Khurram Khurshid
16.	Atif Farooq (01-249191-015)	Detection of pneumonia using deep learning paradigm	MSDS	Dr. Sumaira Kausar	Ms. Momina Moetesum	Dr. Muhammad Nadeem
17.	Hafiz Muhammad Qadir (01-249191-016)	Medical Images forgery detection	MSDS	Dr. Samabia Tehsin	Dr. Imran Siddiqi	Dr. Rashid Hussain
18.	Anjum Abbas (01-245191-002)	An enhanced trust based routing protocol for internet of things	MSTN	Dr. Kashif Naseer Qureshi	Dr. Moneeb Gohar	Dr. Khalid Mehmood Awan
19.	Muhammad Bilal (01-245191-008)	A hybrid handoff model for seamless mobility in wireless mesh networks using multipath tcp	MSTN	Dr. Moneeb Gohar	Dr. Saleem Aslam	Dr. Tariq Umer
20.	Fawad Ahmad Shahzad (01-247182-025)	Live and real time anomaly detection system for DDOS Attack using machine learning	MSIS	Mr. Sajjad Shah	Ms. Saba Mehmood	Dr. Mansoor Ahmed



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21.	Muhammad Ali Baig (01-247182-028)	Protection of content against crawler/scrapper request for accessing web service	MSIS	Saba Mehmood	Dr. Faisal Bashir	Dr. Muhammad Khalil Afzal
22.	Muhammad Aslam (01-247191-007)	Trust Model for IoT services	MSIS	Saba Mehmood	Dr. Moneeb Gohar	Dr. Kashif Kifayat
23.	Muhammad Sohaib Mallhi (01-247191-008)	A secured roadside data transmission approach based on active eavesdropper in Internet of vehicles	MSIS	Dr. Kashif Naseer	Dr. Moazzam Ali	Dr. Tariq Umer
24.	Syed Wasim Haidar (01-247191-011)	Secure data communication in drone enabled internet of vehicles	MSIS	Dr. Kashif Naseer	Ms. Saba Mehmood	Dr. Muhammad Khalil Afzal
25.	Yasir Qadeer (01-247191-014)	Defense techniques against attacks on social networks	MSIS	Saba Mehmood	Dr. Faisal Bashir	Dr. Tanvir Afzal



Appointment of Examiners for MS Thesis Defense EE Department, Islamabad Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiners	External Examiners
1	Fahad Hassan Zaman 01-244192-003	Prediction of KPIs Related to CLOs/PLOs	MS EE	Dr. Junaid Imtiaz	Dr. Imran Fareed Nizami	Dr. Muhammad Aamir
2	Khawaja Asad Ayaz 01-244192-004	Validation of Ultralightweight Mutual Authentication Protocol for Resource Constraint Perception Layer	MS EE	Dr. Najam Ul Islam (Madiha Khalid)	Engr. Adil Ali Raja	Dr. Yasar Amin
3	Muhammad Musawar Abbas Zaidi 01-244192-006	Vehicular fog Computing Resource management in intelligent transport system	MS EE	Dr. Imtiaz Alam	Dr. Saleem Aslam	Dr. Yahya Jan
4	Sharoze Sohail 01-244192-012	Optimal Allocation of DGs into several electrical networks based on DG Types	MS EE	Dr. Asad Waqar	Engr. Faheem Haroon	Dr. Muhammad Zahid
5	Asad Ali Khokhar 01-244192-015	Investigation and analysis of low frequency oscillations in the 500KV/220 KV power network of Pakistan	MS EE	Dr. Asad Waqar	Engr. M. Yaseen	Dr. Muhammad Zahid
6	Nazar Abbas 01-244192-016	Generation Expansion Planning with focus on DRPs	MS EE	Dr. Asad Waqar	Engr. Syed Umaid	Dr. Muhammad Aamir
7	Zahid Ullah 01-244171-038	Ultra-Wide Band Antenna Design to Improve Detection in Microwave Imaging	MS EE	Dr. Imtiaz Alam	Ms. Madiha Khalid	Dr. Ali Imran Najam
	MUKRAMEEN 01-244171-027	Energy and spectral Efficient cognitive Radio Sensor Networks for Internet of Things.	MS EE	Dr. Imtiaz Alam	Engr. Adil Ali Raja	Dr. Zeeshan Kaleem



Appointment of Examiners for MS Thesis Defense EES Department, Islamabad Campus

S. No	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiners	External Examiners
1.	Aman Ullah (01-262191-012)	Unconventional Reservoir Characterization By Utilizing Seismic And Well Data: A Case Study From The Talhar Shale, Southern Indus Basin, Pakistan	MS Geophysics	Dr. Muhsan Ehsan (Dr. Khalid Amin Khan)	Dr. Muhammad Iqbal Hajana	Dr. Tahir Azeem
2.	Muhammad Ali Umair Latif (01-262191-013)	Evaluation of hydrocarbon potential and Geocellular Modeling of Minwal-Joyamair Fields, Upper Indus Basin, Pakistan	MS Geophysics	Dr. Muhsan Ehsan	Mr. Tausif Ahmad	Dr. Muhammad Irfan Ehsan
3.	Muhammad Niaz (01-262191-015)	2D Seismic Interpretation and Petrophysical Analysis of Kabirwala Area, Central Indus Basin, Pakistan	MS Geophysics	Mr. Adil Naseer	Ms. Urooj Shakir	Dr. Anwar Qadir
4.	Raja Waqas Munir (01-262191-016)	Integrated Reservoirs Simulation Study and Subsurface Fracture Networking Analysis in Carbonate Reservoirs: Potwar Plateau, Pakistan	MS Geophysics	Dr. Muhsan Ehsan (Dr. Khalid Amin Khan)	Dr. Mohammad Fahad	Dr. Anees Ahmed Bangash
5.	Saima Jalani (01-262191-017)	High Amplitude Analysis for Petroleum Play of Offshore Indus Basin, Pakistan	MS Geophysics	Dr. M. Iqbal Hajana	M. Raiees Amjad	Muhammad Maas Siddiqui
6.	Syed Saad Ali (01-262191-019)	Determination Of Porosity And Water Saturation Using 3d Seismic Post-Stack Inversion Of Badin Area, Southern Indus Basin, Sindh Pakistan	MS Geophysics	Dr. M. Fahad Mehmood	Dr. Muhsan Ehsan	Dr. Shazia Asim
7.	Uroosa Ahmed (01-262191-020)	SAND RESERVOIR EVALUATION THROUGH COMPARATIVE INVERSION TECHNIQUES, GAMBAT CONCESSION, PAKISTAN	MS Geophysics	Dr. M. Iqbal Hajana (Akbar Ali Asif)	Dr. Muhsan Ehsan	Dr. Shazia Asim
8.	Ashfaq Ali 01-262191-001	Reservoir Quality Analysis of Eocene Carbonates using wire line log data in Dhurnal Oil Field, UIB, Pakistan	MS Geology	Prof. Dr. Tahseeullah Khan	Mr. Mumtaz Ali Khan	Dr. Birkhaiz Aslam Shami
9.	Ashfaq Ur Rehman 01-262191-002	Biostratigraphy and Microfacies of Upper Cretaceous Kawagarh Formation, Hazara Basin, KP, Pakistan	MS Geology	Mumtaz Ali Khan	Mr. Masood Anwar	Dr. Abbas Ali Naseem



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10.	Fakhri Alam 01-262191-003	Reservoir Quality Analysis of Permian Carbonate using wireline log Data in Western Potwar Sub-Basin, Pakistan	MS Geology	Prof. Dr. Tahseeullah Khan	Dr. Muhammad Zafar	Dr. Birkhaiz Aslam Shami
11	Fawad Ahmed 01-262191-004	Detailed Petrographic Study and Diagenetic Investigation of Eocene Habib Rahi Limestone Sulaiman Basin, North Waziristan, KP, Pakistan: Implication of Reservoir Evaluation	MS Geology	Prof. Dr. M Zafar (Mr. Imran Ahmed)	Mr. Saqib Mehmood	Dr. Mumtaz Muhammad Shah
12	Ibrar 01-262191-005	PETROPHYSICAL AND FACIES ANALYSIS OF CHANDA OIL FIELD KOHAT PLATEAU NORTHERN PAKISTAN, USING WIRELINE LOGS	MS Geology	Saqib Mehmood (Dr. Syed Bilawal Ali Shah)	Mr. Tausif Ahmad	Mr. Shoaib Amir Faheem
13	Jawad Rafiq 01-262191-006	GEOLOGICAL AND STRUCTURAL MAPPING OF FIMKASSAR OIL FIELD, POTWAR SUB BASIN, PAKISTAN	MS Geology	Prof. Dr. M Zafar (Dr. Birkhaiz Aslam Shami)	Mr. Tausif Ahmad	Asim Nawaz
14	Muhammad Faiz Saleem 01-262191-007	Petrography of Lumshiwal sandstone Thandiani section, Hazara Basin Pakistan. Implication for Provenance, diagenesis and depositional environment	MS Geology	Mumtaz Ali Khan	Dr. Muhammad Zafar	Dr. Muhammad Hanif
15	Muhsan Ullah 01-262191-008	PETROGENETIC STUDY OF SULPHIDE MINERALIZATION AND ASSOCIATED MINERALS IN MUHAMMAD KHEL AREA, DISTRICT NORTH WAZIRISTAN, KHYBER PAKHHWA PROVINCE, PAKISTAN	MS Geology	Prof. Dr. Tahseeullah Khan	Dr. Muhammad Zafar	Dr. Abid Ahmad
16	Syed Abdul Quddus 01-262191-009	GEOCHEMICAL ASSESSMENT OF RESERVOIR CONNECTIVITY AND RESERVOIR FLUID ALTERATIONS, ADHI OILFIELD, POTWAR SUB BASIN, PAKISTAN	MS Geology	Saqib Mehmood (Dr. Samina Jahandad)	Mr. Tausif Ahmad	Syed Habib Shah
17	Waqas Haider 01-262191-010	PETROPHYSICAL AND MICROFACIES ANALYSIS OF SAKESAR FORMATION, BALKASSAR OIL FIELD, POTWAR SUB BASIN, PAKISTAN	MS Geology	Prof. Dr. M Zafar (Dr. Syed Bilawal Ali Shah)	Dr. Muhsan Ehsan	Syed Habib Shah
18	Afshan Kanwal (01-262191-022)	Anaerobic Complete Mix Bioreactor For Treatment Of Synthetic Wastewater And Its Efficiency	MS Env. Sci.	Dr. Asma Jamil	Dr. Said Akbar Khan	Dr. Hamid Iqbal



Faculty of Engineering Sciences, Bahria University, Islamabad.

19	Danish Bint E Mehmood (01-262191-023)	Climate change trends and impact Assessment in potohar region, Pakistan using cmip5 model	Ms Env. Sci.	Dr. Humera Farah (Dr. Jehangir Ashraf Awan)	Mr. Asif Javed	Dr. M. Arshad Ashraf
20	Hifza Batool (01-262191-024)	Biological, Physicochemical And Heavy Metal Analysis Of Drinking Water From Different Places Of Chakwal Punjab, Pakistan	Ms Env. Sci.	Dr. Said Akbar Khan	Dr. Asma Jamil	Dr. Said Muhammad
21	Madiha Akram (01-262191-025)	Analysis Of Heavy Metals In Irrigation Water, Soil And Uptake By Crops Of Brahma Bahtar Attock	Ms Env. Sci.	Dr. Said Akbar Khan	Dr. Humera Farah	Dr. Jabir Hussain
22	M. Usman Tariq Khan (01-262191-026)	Occupational Health Hazards and Safety in OGDCL and Attock Refinery Limited Pakistan	Ms Env. Sci.	Dr. Asma Jamil	Dr. Humera Farah	Dr. Shaukat Iqbal
23	Muhammad Wajahat (01-262191-027)	Analysis for the accumulation of arsenic in Wheat crop by arsenic rich soil and irrigated Water, Punjab plains of Pakistan	Ms Env. Sci.	Asif Javed	Dr. Asma Jamil	Dr. Hamid Iqbal
24	Shan Bibi (01-262191-028)	Determination Of Bacterial Diversity In Anaerobic Complete Mix Bioreactor For Treatment Of Synthetic Domestic Wastewater	Ms Env. Sci.	Dr. Asma Jamil	Dr. Said Akbar Khan	Dr. Sajida Rasheed
25	Shizra Ayub (01-262191-029)	Physicochemical and microbiological water quality in selected areas of Rawalpindi	Ms Env. Sci.	Dr. Asma Jamil	Dr. Said Akbar Khan	Dr. Shaukat Iqbal
26	Zumrah Hamid (01-262191-030)	Assessment Of Produced Water And Treatment Through Orange And Banana Peels, Sadqal Oil And Gas Field, Fateh Jang, Pakistan	Ms Env. Sci.	Dr. Said Akbar Khan	Ms. Fiza Sarwar	Dr. Javed Nawab



Appointment of Examiners for MS Thesis Defense SE Department, Islamabad Campus

S#	Name of Student Enrolment#	Program	Title	Supervisor Name Co-Supervisor Name	Internal Examiner	External Examiner
1	Bilal Munir (01-241182-056)	MS (SE)	Sentiment Analysis of Online Restaurant Reviews	Dr. Kashif Sultan	Dr. Tamim Ahmed Khan	Dr. Hammad Afzal
2	Aqsa Noor (01-241191-003)	MS (SE)	Multiclass Imbalanced Classification of Quranic Verses Using Deep Learning Approach	Dr. Ahmed Ali	Dr. Kashif Sultan	Dr. Arslan Shaukat
3	Huzaiifa Ahmed (01-241191-007)	MS (SE)	Fault localization of class/package using deep learning techniques	Dr. Tamim Khan	Dr. Kashif Sultan	Dr. Basit Shahzad
4	Komal Hafeez (01-241191-009)	MS (SE)	Detecting Dynamic Topics and Sentiments in Urdu Tweets	Dr. Ahmed Ali	Dr. Tamim Ahmed Khan	Dr. Usman Qamar
5	Maryam Munawar (01-241191-010)	MS (SE)	A Propose Model of Migrating from Monolithic towards Microservices	Dr. Awais Majeed	Dr. Tamim Ahmed Khan	Dr. Asim Noor
6	Mediha Maroof (01-241191-012)	MS (SE)	Anomaly Detection Techniques in IoT by Using Machine Learning	Dr. Kashif Sultan	Dr. Awais Majeed	Dr. Irfan ul Haq
7	Qanetah Ahmed (01-241191-015)	MS (SE)	Semantic Web Mining by Using Clustering and Pattern Discovery	Dr. Tamim Khan	Dr. Asfand Yar Khan	Dr. Sohail Asghar
8	Um E Safia (01-241191-019)	MS (SE)	Impact of code smells on software fault prediction	Dr. Tamim Khan	Dr. Awais Majeed	Dr. Khalid Saleem
9.	Mehar Bilal (01-246191-005)	MS (EM)	Impact of Employees Mindset on Innovation Performance	Dr. Abdul Baseer Qazi	Dr. Muhammad Sajid	Dr. Faheem Qaiser
10.	Rabia Naz Ali (01-246191-010)	MS (EM)	Impact of Covid-19 on SME's of Pakistan	Dr. Abdul Baseer Qazi	Mr. Bilal Ashraf	Dr. Ansar Rajput
11.	Sumayya Iftikhar (01-246191-013)	MS (EM)	Impact of Dissociation of Software Developers in Participative Decision Making by Management of Product Performance A Study of Pakistan Perspective	Dr. Abdul Baseer Qazi	Dr. Muhammad Sajid	Dr. Farrukh Jaleel
12.	Asma Hafeez (01-246182-002)	MS (EM)	Mnaging Cyber Threats And Vulnerabilities of Data on Cloud: Best Practices and Mitigation Strategies	Dr. Sheikh Zahoor	Dr. Awais Majeed	Dr. Farrukh Jalil



Appointment of Examiners for MS Thesis Defense CS Department, Karachi Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiners	External Examiners
1	Waqar Rasheed (02-243182-009)	Multilayer Encryption with Text Steganography to secure Files Data on Cloud	MS(CS)	Dr. Ghulam Muhammad	Dr. Safdar Ali	Prof. Dr. Malook Rind
2	Muhammad Irfan (02-243191-013)	Performance Analysis on Different Load Balancing Algorithms in Cloud Computing	MS(CS)	Dr. Ghulam Muhammad	Dr. Osama Rehman	Dr. Asif Aziz
3	Khurram Abbas (02-243191-007)	White Blood cell type detection using State-of-the-Art Object Detection techniques	MS(CS)	Dr. Raheel	Dr. Kashif Hussain	Dr. Abbas Ali
4	Syeda Maria Ali Shah 02-248191-001	Impact of Macroeconomics Variable on Stock Exchange in the presence of COVID-19	MS(Mathematics)	Dr. Talat S. Rehmani	Dr. Asif Mansoor	Dr. Rizwan Trimizi
5	Adeel Murad 02-248191-002	3D BEM for the derivation of potential function around arbitrary body using triangular meshed element	MS(Mathematics)	Dr. Talat S. Rehmani	Dr. Oyoon Abdul Razzaq	Dr. Murtaza Hussain
6	Iffat Naveed 02-248191-003	Mathematical Quantification of Machine Health Prognostic	MS(Mathematics)	Dr. Talat S. Rehmani	Dr. Asif Mansoor	Dr. Rizwan Trimizi
7	Sumera Sajjad 02-248191-004	Corrosion Impact modelling of metal used in sea going vessel at Karachi harbour	MS(Mathematics)	Dr. Talat S. Rehmani	Dr. Oyoon Abdul Razzaq	Dr. Muhammad Ayaz
8	Saeed Abbas 02-248191-005	Solution of Non Linear Boundary value problem by utilizing the technique of Green's Function	MS(Mathematics)	Dr. Talat S. Rehmani	Dr. Asif Mansoor	Dr. Syed Murshid



Appointment of Examiners for MS Thesis Defense EE Department, Karachi Campus

S. No.	Student Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiners	External Examiners
1	Mr. Abdinasir Hirsi Abdi (02-244191-015)	Performance Analysis for Massive MIMO in Terahertz Communication	MS EE	Prof. Dr. Haroon Rasheed	Dr. Syed Safdar Ali Rizvi	Dr. Rehan Qureshi
2	Mr. Muhammad Haseeb (02-224192-001)	Optimization of Biogas Energy Produced By Anaerobic Co-Digestion of Waste Food	MS(EE)	Prof. Dr. Haroon Rasheed	Dr. Muhammad Raza	Dr. Ghous Buksh
3	M. Maliha Yasin (02-244191-017)	Optimization of Energy Saving In Home Area Network in Smart Grid	MS EE	Prof. Dr. Haroon Rasheed	Dr. Mukesh Kumar Maheshwari	Dr. Riaz-un Nabi Jafri
4	Adnan Nawaz (02-344192-001)	Onshore Grid Frequency Support by Offshore Wind Turbines`	MS EE	Dr. Muhammad Raza	Dr. Aurangzeb Rashid Masud	Dr. Mohsin Aman



Appointment of Examiners for MS Thesis Defense CS Department, Lahore Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Uzma Akram (03-243182-026)	Human Gestures Estimation Using Depth Data	MSCS	Dr Iram Noreen	Mr. Asim Ali	Dr. Allah Bux
2	Irshad Ali (03-243182-035)	User Interface Design Framework for Children with Dyslexia.	MSCS	Dr Iram Noreen (Dr. Abdul Hafeez)	Dr. Khurram Ehsan	Dr. Ansar Siddique
3	Mahpara Jamil (03-243191-006)	Landscape Recommendation using machine learning techniques	MSCS	Dr Ghulam Mustafa (Numan Aslam)	Dr. Muhammad Aasim Qureshi	Dr. Adnan Nabeel Qureshi
4	Muhammad Ayaz Farid Shah (03-243191-009)	Efficient and accurate detection framework for DNA repair genes to help diagnose cancer	MSCS	Mr Asghar Ali Shah	Dr. Ghulam Mustafa	Dr. Sheraz Naseer
5	Muhammad Zafar Iqbal Karmani (03-243191-014)	Breast Cancer Prediction from Memography and Fine Needle Aspiration with Data mining Techniques	MSCS	Dr Muhammad Aasim Qureshi (Dr. Mahjabeen Masood)	Dr. Ghulam Mustafa	Dr. Amjad Iqbal
6	Sara Naeem (03-243191-018)	A usability framework For Assessing Quality of Higher Education LMS	MSCS	Dr Abdul Hafeez	Dr. Khurram Ehsan	Dr. Ansar Siddique
7	Zoraiz Ali (03-243191-023)	Motion Planning of robots using reinforcement learning	MSCS	Dr Iram Noreen	Dr. Muhammad Aasim Qureshi	Dr. Amna Khan
8	Muhammad Haroon (03-243191-026)	Investigating the role of job aware recommender system using machine learning techniques	MSCS	Dr Ghulam Mustafa (Dr. Muhammad Aasim Qureshi)	Dr. Muhammad Aasim Qureshi	Dr. Adnan Nabeel Qureshi
9	Furqan Durrani (03-243191-025)	Aspect Level Sentiment Analysis of E-Commerce Business: A Case of Ebay	MSCS	Dr Muhammad Aasim Qureshi	Mr. Asim Ali	Dr. Adnan Abid
10	Ghazi Irfan (03-243191-030)	Investigation of Scholarly Articles Recommendation using Machine Learning Techniques	MSCS	Dr Ghulam Mustafa (Dr. Muhammad Aasim Qureshi)	Mr. Asghar Ali Shah	Dr. Sagheer Abbas
11	Muhammad Sami-ud-Din (03-243191-033)	Detection of Tumor Suppressor Genes for early detection of Cancer	MSCS	Mr Asghar Ali Shah	Dr. Ghulam Mustafa	Dr. Sheraz Naseer
12	Syed Hussnain Raza (03-243191-021)	Hybrid Spectrum Sensing Techniques in Cognitive Radio Enabled 5G	MSCS	Dr Khurram Ehsan (Mr. Nadeem Sarwar)	Dr. Junaid Imtaiz BUIC	Dr. Tariq Umer
13	Sana parvez (03-243191-016)	Traffic Classification in IOT Enabled Healthcare Environment	MSCS	Dr Khurram Ehsan	Dr. Khawaja Qasim	Dr. Tariq Umer

**Annex-II: Appointment of Examiners for PhD Proposal Defense****Appointment of Examiners for PhD Proposal Defense****EES Department, Islamabad Campus**

SNo.	Name (Enrolment #)	Program	Research Title	Supervisor	Co-Supervisor	Internal Examiner	External Examiner
1	Waqar Ahmed 01-286192-001	PhD Geology	Digenetic modeling and its impact on reservoir quality of Chiltan Limestone and Samana Suk Formation, Sub-Himalayas, Pakistan	Prof. Dr. Muhammad Zafar	-	Dr. Muhsan Ehsan	Dr. Mumtaz M. Shah Dr. Samina Jahandad
2	Qadeer Ahmed 01-286192-004	PhD Geophysics	Mapping of Hydrocarbon migration pathways using seismic and geochemistry data:. Case Study, Northern part of Punjab Platform, Pakistan	Dr. M. Iqbal Hajana	-	Dr. Muhsan Ehsan	Dr. Aamir Ali Dr. Samina Jahandad
3	Umair Rashad 01-286192-003	PhD Env. Sciences	Seasonal and spatial variations in appointment of pm 10 and pm 2.5, their chemical composition in densely populated cities Punjab, Pakistan.	Dr. Asma Jamil	Dr. Tahir Hayat Malik	Dr. Aansa Rukya Saleem	Dr. Sheikh Saeed Dr. Mazhar Iqbal
4	Asma Khalil 01-286192-002	PhD Env. Sciences	Biochemical response on biomarkers of oxidative stress and associated genotoxicity and histopathology in dams of Pakistan	Dr. Asma Jamil	Dr. Zia ur Rahman Hashmi	Dr. Humera Farah	Dr. Hamid Iqbal Dr. Jabir Hussain



Appointment of Examiners for PhD Proposal Defense

CS Department, Karachi Campus

Sr.	Name (Enrolment #)	Research Title	Program	Supervisor (Co-Supervisor)	Internal Examiners	External Examiners
1	Zia ul Islam (02-284181-001)	Using ANN and NLP approaches to develop word embeddings	PhD(CS)	Dr. Raheel Siddiqi	Dr. Muhammad Asfand-e-Yar, BUIC	Dr. Hammad Raza Dr. Muhammad Sarim
2	Syeda Nazia Ashraf (02-284182-001)	Diagnosis of chest diseases using Computer Vision Techniques	PhD(CS)	Dr. Raheel Siddiqi	Dr. Amina Jamil	Dr. Nadeem Mehmood Dr. Najeed Ahmed Khan



Appointment of Examiners for PhD Proposal Defense

EE Department, Karachi Campus

SNo.	Name (Enrolment #)	Program	Research Title	Supervisor (Co-Supervisor)	Internal Examiner	External Examiners
1	Fazal Muhammad (02-281191-001)	PhD EE	Design of Modular Multilevel Converter for Enhancement of Electrical Energy Efficiency of Smart Grid System	Dr. Haroon Rasheed	Dr. Muhammad Raza	Dr. Mohsin Aman Dr. Raja Masood Larik
2	Muhammad Waleed Raza (02-281191-002)	PhD EE	Control of Inertial Less Offshore Grid System to Integrate Wind Power Plant	Dr. Muhammad Raza	Dr. Asad Waqar, BUIC	Dr. Ishtiyak Ahmed Makda Dr. Mohsin Aman
3	Muhammad Ovais Akhter (02-281192-001)	PhD EE	Design and Implementation of an Ultra-Low Power Bluetooth Low Energy RF Transmitter in 65 nm CMOS Technology	Dr. Najam M. Amin	Dr. Khawaja Qasim Maqbool, BULC	Dr. Hashim Raza Khan Dr. Ali Ahmed



Annex-III: Re-appointment of Examiners for MS Thesis Defense

E & ES Department, Islambad Campus

SNo.	Name (Enrolment #)	Research Title	Program	Supervisor	Internal Examiner	External Examiner
1	Salman Shah (01-262181-022)	Impact of Cement industry on Air Quality of Surrounding Areas, A Case Study of Sheikh Badin National Park and Darrra Pezu.	MS (ES)	Dr. Aansa Rukya Saleem	Ms. Fiza Sarwar	Dr. Tahir Hayat
2	Zubia Rasheed (01-262182-035)	Reservoir Characterization of Kadanwari-Latif Block Using 3D Seismic and Well Log, Lower Indus Basin, Pakistan	MS GeoPhysics	M. Raiees Amjad	Dr. M. Iqbal Hajana	Muyyassar Hussain



Annex-IV: Inclusion of Experts in the list of Local External Examiners

CS Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Sadia Shakil	Asst. Prof.	Institute of Space Technology	Image and Signal Processing, Machine Learning
2	Dr. Adnan Zafar	Asst. Prof.	Institute of Space Technology	Signal Processing, Wireless Communication
3	Dr Asim Munir	Asst. Prof.	International Islamic University, Islamabad	Signal, Image and Video Processing
4	Dr. Muhammad Nadeem	Asst. Prof.	International Islamic University, Islamabad	Medical Image Processing, Computer Vision, Computer Graphics



Faculty of Engineering Sciences, Bahria University, Islamabad.

Inclusion of Experts in the Pool of Local External Examienrs

EE Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Zeashan Hameed Khan	Associate Professor	Air University	Linear control, networked control system, fault detection and isolation, system identification, robust control, industry 4.0
2	Dr. Aamir Raza Naqvi	Deputy Director	IESCO	Smart Grid, Energy Hub, Artificial Intelligence, Energy Management System, High Voltage Insulation.



Inclusion of Experts in the Pool of Local External Examienrs

EES Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Ishfaq Ahmad	Resilient Agriculture Specialist	Asian Disaster Preparedness Centre (ADPC), Islamabad, Pakistan	Agriculture
2.	Dr. Muhammad Irfan Ashraf	Assistant Professor	PMAS Arid Agriculture University, Rawalpindi	Forestry
3.	Dr. Munawar Shah	Assistant Professor	Institute of Space Technology, Islamabad, Pakistan	Satellite Navigation and Space Geodesy GNSS Seismo-ionosphere & Modelling GIS/ Remote Sensing
4.	Dr. Naveed Iqbal	Research Hydrologist / Deputy Director	Govt. of Pakistan, Ministry of Science & Technology, Pakistan Council of Research in Water Resources (PCRWR), Islamabad	Hydrology Groundwater Resource Estimation and quality demarcation
5.	Dr. Abid Ali	Assistant Professor	Institute of Geology, University of the Punjab	Near Surface Geophysics
6.	Dr. Khalid Latif	Research Associate	NCE in Geology, University of Peshawar	Geology, Sedimentology
7.	Dr. Hira Amjad	Assistant Professor	IESE, NUST	Environmental Engineering



Inclusion of Experts in the Pool of Local External Examienrs

SE Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Farrukh Jalil	Assistant Professor	International Islamic University	Project Management, Engineering Management
2	Dr. Shahzaib Tahir Butt	Assistant Professor	MCS-NUST	Information security, Cloud Security
3	Engr. Dr. Hasan Tahir	Assistant Professor	MCS-NUST	Information security, Cloud Security
4	Dr. Saif ur Rehman Khan	Assistant Professor	Comsats Islamabad	Verification and validation, Search-based software engineering
5	Dr. Usama Qazi	Assistant Professor	Institute of Space Technology	Production & Operations Management, Engineering Management

Inclusion of Experts in the Pool of Local External Examienrs

CS Department, Lahore Campus

S. No.	Name	Designation	Affiliation	Research Areas(s)
1	Dr. Bilal Shoaib Khan	Assistant Professor	Minhaj University, Lahore	Statistical Modeling; Artificial Intelligence
2	Dr. Kashif Zafar	Professor	NU-Fast, Lahore	Robotics; Data Mining; Machine Learning



Inclusion of Experts in the Pool of Local External Examiners

CS Department, Karachi Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Murtaza Hussain	Assistant Professor	PNEC-NUST Karachi	Machinery Health Prognostics, Non-linear Stochastics Modelling, Machine Learning
2	Dr. Rizwan Tirmizi	Assistant Professor	Department of Computer Science Iqra University, DHA, Campus Karachi	Applied and Computational Mathematical & Statistical Modelling
3	Dr. Asif Shaikh	Professor	Department of Basic Sciences, Mehran University of Engineering and Technology, Jamshoro, Pakistan.	Applied and Computational mathematics
4	Dr. Muhammad Ayaz	Assistant Professor	Department of Mathematics, University of Karachi	Artificial neural network, Stochastic modeling, Fractional derivatives.
5	Dr Aurang Zaib	Professor	The Begum Nusrat Bhutto Women University, Sukkur	Newtonian & non-Newtonian Fluid, Porous media, Heat and Mass Transfer, Boundary layer flow, Nanofluid
6	Dr. Syed Muhammad Murshid Raza	Assistant Professor	Federal Urdu University of Arts Sciences & Technology Karachi	Applied & Computational Mathematical & Statistical Modelling
7	Dr. Azam Khan	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling
8	Dr. Saima Gul	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling



Inclusion of Experts in the Pool of Local External Examienrs

EE Department, Karachi Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Atiq Ur Rehman	Assistant Professor	Department of Electrical Engineering BUIITEMS, Quetta, Pakistan	Smart Grid, Renewable Energy, HVDC, Power system, power electronic
2.	Dr. Ali Asghar Memon	Professor	Department of Electrical Engineering Mehran University of Engineering and Technology, Jamshoro, Sind, Pakistan	Power systems, Switched Reluctance Machine and Inverters
3.	Dr. Ali Ahmed	Assistant Professor	Usman Institute of Technology, Affiliated with NED University of Engineering & Technology, Karachi	SRAM-based TCAM, Memory Architecture, Content Addressable Memory, Ternary Content Addressable Memory. FPGA, Microcontrollers, Product Development
4.	Dr. Raja Masood Larik	Assistant Professor	Department of Electrical Engineering, NED University of Engineering & Technology, Karachi	Power systems, Smart Grid, Power System Optimization



Inclusion of Experts in the Pool of Local External Examienrs

EES Department, Karachi Campus

S. No	Name	Designation	Research Area	Affiliation
1	Dr. Ahmed Hussain	Assoc. Prof & Director ORIC	Env. Sciences	SZABIST Institute of S&T Karachi
2	Dr. Mohammad Shafiq	Manager Scientific Research	Meteorology/ GIS	SUPARCO Karachi
3	Dr. Muhammad Mansha	General Manager	GIS & RS/ Climate/ Meteorology	SUPARCO Karachi
4	Dr. Surraya Yaseen	Asstt Professor	Environ. Sci.	IES, Karachi University
5	Dr. Shah Ali ul' Qadri	Professor	Biochemistry	Dept. of Biochemistry Karachi University
6	Dr. Akhtar Muhammad Kasi	Emeritus Professor	Geology	University of Balochistan, Quetta
7	Dr. Abdul Salam Khan	Emeritus Professor	Geology/ Tectonic	University of Balochistan Quetta
8	Dr. Din Muhammad Kakar	Professor	Geology/ Seismology	University of Balochistan Quetta
9	Dr. Erum Bashir	Chairperson & Professor	Geology	University of Karachi



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

CS Department, Islamabad Campus

No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Gennaro Vessio	Asst. Prof.	University of Bari, Italy	Machine Learning, Computer Vision, E-health, Biometrics
2.	Dr. Sajjad Hussain	Senior Lecturer (Assoc. Prof.)	University of Glasgow, UK	Digital Signal Processing; Wireless Communication
3.	Dr. Amit N. Pujari	Senior Lecturer (Assoc. Prof.)	University of Hertfordshire, UK	Biomedical Engineering. Bio-signal Processing, Machine Learning



Inclusion of Experts in the List of Foreign Evaluators
EE Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Qadeer Ahmed	Associate Prof.	The Ohio State University, USA	Smart Powertrain and Automotive systems; Optimal Control; Fault Diagnosis; Sliding Mode Control; Nonlinear Control; Cybersecurity; Assured Autonomy
2	Dr. Kamran Iqbal	Professor	University of Arkansas, USA	Sensorimotor control of human movement, biomedical signal and image processing, rehabilitation engineering, biomechatronics, cyber physical systems, electrical energy, machine learning
3	Dr. Moeed Mukhtar	Lead Researcher	Raytheon Technologies, Rockford, Illinois, USA	Principles models and advanced controls development for home appliance, process, and aerospace applications, taking concepts from pilot to production
4	Dr. Nidhal Carla Bouaynaya	Professor	Rowan College of Engineering Rowan University, USA	Big Data Analytics, Machine Learning, Artificial Intelligence and Mathematical Optimization



Inclusion of Experts in the List of Foreign Evaluators
EES Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Numair Ahmed Siddiqui	Assistant Professor	Universiti Teknologi PETRONAS, Malaysia	Petroleum Geosciences
2.	Dr. Yasir Bashir	Assistant Professor	School of Physics, Geophysics Group at University of Science Malaysia, Penang, Malaysia	Petroleum Geosciences



**Inclusion of Experts in the List of Foreign Evaluators
SE Department, Islamabad Campus**

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Neil Walkinshaw	Senior Lecturer in Testing	Sheffield University UK	Software Testing, Search based software testing
2.	Dr. Erich Schikuta	Professor of Computer Science & Deputy Head Research Group Workflow Systems and Technology at the University of Vienna.	University of Vienna, Austria	Utility Computing, Parallel and Distributed Computing, Cloud Computing, Computational Intelligence, IOT Systems, Workflow management, SLA based systems
3.	Dr. Omair Shafique	Asst. Professor (Tenure Track)	Carlton University Ottawa, Canada	Data Modeling, Data Mining, Big Data Analytics, Machine Learning, Cyber Security, Social Network Analysis, Services Computing, Cloud Computing and Health Informatics
4.	Dr. Adnan Akhunzada	Snr Research Fellow	Technical University of Denmark	Deep Learning, IoT, Software defined networks
5.	Dr. Reiko Heckel	Professor	Leicester University UK	Model based testing Modeling and Simulations Software Engineering
6.	Dr. Naeem Ramzan	Professor	School of Engineering and Computing, University of West of Scotland, Paisley PA1 2BE, UK	Affective Human Computing, big data analytics, affective computing, IoT/smart environments, natural multi-modal human computer interaction, and eHealth/connected Health, Smart Environments



Inclusion of Experts in the List of Foreign Evaluators
EE Department, Karachi Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Oriol Gomis-Bellmunt	Professor	Electrical Engineering Department, Technical University of Catalonia, Spain	Renewable power and power systems, power electronics (HVDC, FACTS, renewables), smart grid, grid integration of renewables
2.	Dr. Ana Karina Cabrera-Tobar	Researcher/Assistant Professor	Department of Electrical Engineering, University of Trieste, Italy	Power systems and Electronic Engineer, Transmission and Distribution, Power Electronics, Smart grids, Power Systems Technology, Management of Renewable Energy, and grid codes.
3.	Dr. Mònica Aragüés-Peñalba	Assistant Professor	Electrical Engineering Department, Technical University of Catalonia, Spain	Energy Management System for hybrid PV plants, power systems, renewable energy, smart grid,
4.	Dr. Mohammad Meraj Alam	Research Scientist	R&D Electrical & Power Electronics Energy Systems, VITO (Energyville) Genk, Belgium	Power systems, power electronics, renewable energy (solar & wind), smart inverters, smart grid/micro grid, V2G/V2H, battery systems, energy Management.
5.	Dr. Nicolaos Cutululis	Professor MSO	DTU Wind Energy Department of Wind Energy Technical University of Denmark, Roskilde, Denmark	Wind power technology, Offshore wind, Integration and Grid Connection, Control and Operation low inertia power systems, Offshore grids, Wind Variability and Uncertainty, Renewable power systems, Sustainable energy systems



**Inclusion of Experts in the List of Foreign Evaluators
EES Department, Karachi Campus**

S. No	Name	Designation	Research Area	Affiliation
1	Dr. Edwin Gnos	Professor	Geophysics	Mineralogisch-Petrographisches Institut, Baltzerstrasse, Bern, Switzerland
2	Dr. Rodolfo Console	Professor	Geophysics	National Institute of Geophysics and Volcanology Italy
3	Dr. Junji Ren	Professor	Geophysics	National Institute of Natural Hazards, China
4	Dr. Elefthria Papdimitriou	Professor	Geophysics	University of Thessaloniki, Greece
5	Dr. Min Xu	Professor	Geophysics	South China Sea Institute of Oceanology, China



Inclusion of Experts in the List of Foreign Evaluators
SE Department, Karachi Campus

S. No.	Expert Name	Designation	Affiliation	Research Area (s)
1	Dr. Kyung Jin CHA	Associate Professor	Hanyang University (South Korea)	Information System, digital transformation, Machine learning and AI.
2	Dr. Abdul Wahid	Founder / Data Scientist	GleeTech (New Zealand)	Data science, machine learning, BigData
3	Dr. Harith Al Sahaf	Lecturer (Assistant Prof)	Victoria University of Wellington (New Zealand)	Evolutionary computation, genetic programming, computer vision, pattern recognition, evolutionary cybersecurity, machine learning, feature manipulation, transfer learning, domain adaptation, one-shot learning and image understanding



Annex-VI: Appointment of Examiners for PhD Final Defense

S. No.	Name (Enrolment #)	Program	Thesis Title	Internal Examiners	External Examiners
1.	Ms. Momina Moetesum (01-284142-001)	PhD CS (BUIC)	Deformation Estimation and Classification of Graphomotor Impressions – An Application to Neuropsychological Assessments	Dr. Humera Farooq, BUKC Dr. Sumaira Kausar	Dr. Waseem Shehzad Dr. Farhan Riaz Dr. Abdul Basit Dr. Fawad Hussain
2.	Ms. Naveen Masood (02-281131-001)	PhD EE (BUKC)	Assessment of neural correlates of neuroception using Machine Learning Techniques	Dr. Imran Siddiqi, BUIC Dr. Sumaira Kausar, BUIC	Dr. Najeed Ahmed Dr. Yawar Rehman Dr. Imran Naseem Dr. Nadeem Mehmood



Annex-VII: Recommendation of Foreign Evaluators for PhD Candidates

SNo.	Name	Dept.	Program	Supervisor	Thesis Title	Recommended Foreign Evaluators ¹
1.	Ghulam Ali Mirza (01-284151-002)	CS, BUIC	PhD (CS)	Dr. Imran Siddiqi	Detection and Recognition of Artificial Urdu Text in Videos	Dr. Nicole Vincent Dr. Moises Diaz Dr. Shoaib Ehsan Dr. Muzammil Luqman
2.	Shahid Ismail (01-281141-002)	EE, BUIC	PhD (EE)	Dr. Imran Siddiqi (Dr. Usman Akram, EME-NUST)	Classification and Localization of Heart Beats using PCG and PPG Signals	Dr. Mahmood Akhtar Dr. Constantino Carlos Reyes - Aldasoro Dr. Sajjad Hussain Dr. Amit N. Pujari
3.	Samina Rafique (01-281142-001)	EE, BUIC	PhD (EE)	Dr. Asif Mahmood Mughal (Dr. Muhammad Najam ul Islam)	Physiologically Relevant Sit-to-Stand Movement with Output Feedback Tracking	Dr. Qadeer Ahmed Dr. Kamran Iqbal Dr. Moeed Mukhtar Dr. Nidhal Carla Bouaynaya
4.	Syed Rashid Aziz (01-281152-004)	SE, BUIC	PhD (SE)	Dr. Tamim A Khan (Dr. Aamer Nadeem)	Software Fault Prediction for Object Oriented Programs	Dr. Neil Walkinshaw Dr. Reiko Heckel Dr. Omair Shafique Dr. Adnan Akhunzada
5.	Muhammad Jehangir Khan*	E&ES, BUKC	PhD Geophysics	Prof. Dr. Mehrab Khan	Integrated study on seismicity of Southern Pakistan	Dr. Edwin Gnos Dr. Rodolfo Console Dr. Junji Ren Dr. Elefthria Papdimitriou

¹ Subject to approval of extension as recorded in decision on Agenda Item 12.11 where applicable



Annex-VIII: Extension in Time Bar of PhD Scholars

SNo.	Name	Dept.	Program	Supervisor	Remarks
1	Mr. Ghulam Ali Mirza (01-284151-002)	CS, BUIC	PhD (CS)	Dr. Imran Siddiqi	One year extension granted by the FRC
2.	Hajra Masood (02-284151-002)	CS, BUKC	PhD (CS)	Dr. Humera Farooq	One year extension granted by the FRC
3.	Mr. Muhammad Hussain (02-281151-001)	EE, BUKC	PhD (EE)	Prof. Dr. Haroon Rasheed	One year extension granted by the FRC
4.	Mr. Zulfiqar Ali (01-281151-001)	SE, BUIC	PhD (SE)	Dr. Shagufta Henna	One year extension granted by the FRC
5.	Ms. Hina Shakir (02-281141-001)	EE, BUKC	PhD (EE)	Prof. Dr. Haroon Rasheed (Dr. Tariq Mairaj)	One year extension recommended by the FRC for approval from the competent authority
6.	Shahid Ismail (01-281141-002)	EE, BUIC	PhD (EE)	Dr. Imran Siddiqi	One year extension recommended by the FRC for approval from the competent authority



Annex-IX: Appointment of Supervisors & Advisory Committees

CS Department, Islamabad Campus

SNo.	Name (Enrollment #)	Program	Supervisor (Co-Supervisor)	Advisory Committee
1	ABEER IFTIKHAR (01-284202-001)	PhD (CS)	Dr Kashif Naseer	Dr Kashif Naseer Dr Moneeb Gohar Dr Faisal Bshir
2	AMIR ALI (01-284202-002)	PhD (CS)	Dr Sumaira Kausar	Dr Sumaira Kausar Dr Imran Siddiqi Dr Samabia Tehsin
3	FAISAL ASAD UR REHMAN (01-284202-003)	PhD (CS)	Dr Muhammad Muzammal	Dr Muhammad Muzammal Dr Sumaira Kausar Dr Imran Siddiqi
4	NAZIA SHAHMIR (01-283202-001)	PhD (Mathematics)	Dr Muhammad Ramzan	Dr Muhammad Ramzan Dr Rizwan ul Haq Dr Jafar Husnain
5	ALI RAZA (01-283202-002)	PhD (Mathematics)	Dr Rizwan ul Haq	Dr Rizwan ul Haq Dr Jafar Husnain Dr Nazia Talat



Appointment of Supervisors and Advisory Committees
E& ES Department, Islamabad Campus

SNo.	Name (Enrollment #)	Program	Supervisor (Co-Supervisor)	Advisory Committee
1.	Syed Maqsood Ali Gilani (01-286202-001)	PhD Geophysics	Dr. M. Iqbal Hajana	Dr. M. Iqbal Hajana Dr. M. Fahad Mehmood Dr. Anees Bangash
2.	Umar Manzoor (01-286202-002)	PhD Geophysics	Dr. Muhsan Ehsan	Dr. Muhsan Ehsan Dr. M. Iqbal Hajana Dr. Tahir Azeem
3.	Ammad Zaheer (01-286202-003)	PhD ES	Dr. Said Akbar	Dr. Said Akbar Dr. Asma Jamil Dr. Jabir Hussain
4.	Kamran Younas (01-286202-004)	PhD ES	Dr. Asma Jamil	Dr. Asma Jamil Dr. Said Akbar Dr. Hamid Iqbal



Appointment of Supervisors and Advisory Committees
SE Department, Islamabad Campus

SNo.	Name (Enrollment #)	Program	Supervisor (Co-Supervisor)	Advisory Committee
1.	Sidra Siddiqui 01-281202-002	PhD (SE)	Dr. Tamim Ahmed Khan	Dr. Tamim Ahmed Khan Dr. Awais Majeed Dr. Kashif Sultan

Appointment of Supervisors and Advisory Committees
CE Department, Islamabad Campus

SNo.	Name (Enrollment #)	Program	Supervisor (Co-Supervisor)	Advisory Committee
1.	Waqar Khalid 01-281202-001	PhD (CE)	Prof. Dr. Shehzad Khalid	Dr. Shehzad Kahalid (CE) Dr. Imran Siddiqi (CS) Dr. Sumaira Kausar (CS)