



# FRC Meeting Minutes

11<sup>th</sup> FRC, Faculty of Engineering Sciences  
July 27, 2020

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1. The 11<sup>th</sup> meeting of the Faculty Research Committee of the Faculty of Engineering Sciences (FRC-ES) was held on July 27, 2020 in the Edhi Hall, Quaid Block at 1030 hours.

## Attendees

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2. The meeting was attended by the following:
  - i. Dr. Atif Raza Jafri Dean ES, Chair (FRC-ES)
  - ii. Dr. Khalid Javed HoD CE Dept., IC
  - iii. Dr. Samabia Tehsin HoD CS Dept., IC (For)
  - iv. Dr. Syed Safdar Ali Rizvi HoD CS Dept., KC
  - v. Dr. Khawaja Qasim Maqbool HoD CS Dept., LC
  - vi. Dr. Junaid Imtiaz HoD, EE Dept., IC
  - vii. Dr. Mukesh Kumar Maheshwari HoD EE Dept., KC (For)
  - viii. Dr. Muhammad Zafar HoD EES Dept., IC
  - ix. Dr. Syed Shahid Ali HoD EES Dept., KC
  - x. Dr. Awais Majeed HoD SE Dept., IC
  - xi. Dr. Sohaib Ahmed HoD SE Dept., KC
  - xii. Dr. Muhammad Ramzan Snr. Professor, CS Dept, IC
  - xiii. Dr. Tamim Ahmed Khan Snr. Professor, SE Dept, IC
  - xiv. Dr. Asim Qureshi ASP, CS Dept., LC (For HoD CS, BULC)
  - xv. Dr. Imran Siddiqi Snr. Professor CS Dept., IC (Secretary FRC-ES)

## Opening Remarks

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3. The meeting started with the recitation from the Holy Quran. Chair FRC welcomed the participants at the three campuses.

## Agenda

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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

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### **Item 11.1 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 11.2 Appointment of Examiners for PhD Comprehensive Exam**

#### **Discussion**

8. HoDs from the respective departments of Faculty of Engineering Sciences presented the cases of students enrolled in the PhD programs (**Annex-II**). The candidates have completed/are expected to complete, their course work and need to appear for the PhD comprehensive exam. FRC was requested to approve relevant subjects and appoint appropriate examiners for their PhD Comprehensive Exam.

#### **Decision**

9. On recommendation of the respective DRCs, FRC approved the subjects and examiners for the PhD Comprehensive Exam of the presented candidates. Details on candidates and approved examiners are listed in **Annex-II**.

**Action by:** Concerned HoDs

### **Item 11.3 Appointment of Examiners for PhD Proposal Defense**

#### **Discussion**

10. Candidates listed in **Annex III** 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**

11. On recommendation 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 III**. 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 11.4 Re-appointment of Examiners for MS Thesis Defense**

#### **Discussion**

12. FRC was informed that few of the previously approved examination panels to conduct MS thesis defense (**Annex-IV**) need to be updated due to non-availability of the examiners.

#### **Decision**

13. On recommendation of the respective DRCs, FRC appointed the new examiners to conduct the MS Thesis defense of the candidates listed in **Annex IV**.

**Action by:** Concerned HoDs

### **Item 11.5 Inclusion of Experts in the list of Local External Examiners**

#### **Discussion**

14. 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**

15. FRC approved the examiners listed in **Annex V** for inclusion in the pool of local external examiners.

**Action by:** Concerned HoDs

### **Item 11.6 Inclusion of Experts in the List of Foreign Evaluators**

#### **Discussion**

16. HoD (EE), Karachi campus presented the profiles of the following researchers for recommendation to the HERC to include them in the pool of foreign evaluators to review PhD theses.
- i. Prof. Hossam Gaber (Canada)
  - ii. Prof. Jeff Will (USA)
  - iii. Dr. Shuzheng XU (China)

#### Decision

17. 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 VI**.

Action by: HoD EE, BUKC

### Item 11.7 Appointment of Examiners for PhD Internal Defense

#### Discussion

18. Ms. Ghulam Ali Mirza (01-284151-002) is enrolled in the PhD (CS) program at the department of CS, BUIC under the supervision of Dr. Imran Siddiqi. The candidate intends to submit his thesis to the department for internal evaluation by the mid of August 2020. FRC was requested to appoint appropriate examiners for the internal PhD defense of the candidate.
19. HoD EE, BUIC presented the case of PhD scholar Mr. Shahid Ismail Malik (01-281141-002) who will be submitting his PhD thesis to the department within next couple of months. FRC was requested to appoint a panel of examiners to conduct the internal PhD defense of the candidate.
20. HoD EE, BUKC presented the case of PhD Scholar Mr. Taimoor Zafar (01-281142-002) who has completed the publication requirement for the award of PhD degree and is intended to submit his PhD thesis to department for internal evaluation. FRC was requested to appoint appropriate examiners for the internal PhD defense of the candidate.
21. Mr. Muhammad Hussain (02-281151-001) is enrolled in the PhD (EE) program at the department of EE, BUKC under the supervision of Dr. Haroon Rasheed. The candidate intends to submit his thesis to the department for internal evaluation. FRC was requested to appoint appropriate examiners for the internal PhD defense of the candidate.

#### Decision

22. On recommendation of the respective DRCs, FRC appointed panels of examiners to conduct the internal defense of presented PhD candidates. The appointed examination panels are listed in **Annex-VII**.

Action by: Concerned HoDs

### Item 11.8 Recommendation of Foreign Evaluators for PhD Candidates

#### Discussion

23. HoD EE, BUKC, presented the case of PhD scholar, Ms. Hina Shakir (02-281141-001) who has submitted her thesis for internal evaluation. FRC was requested to provide conditional recommendation of foreign evaluators for subsequent evaluation of the thesis.

#### Decision

24. On recommendation of the respective DRC, FRC provided its conditional recommendations for the foreign evaluation of the PhD thesis of Ms. Hina Shakir (subject to approval of extension as recorded in decision on agenda item 11.12). The recommended evaluators are listed in **Annex-VIII**.

**Action by:** HoD EE, BUKC

### **Item 11.9 Change in PhD Research Titles – PhD Candidates (EE, BUIC)**

#### **Discussion**

25. HoD EE, BUIC, presented the cases of PhD scholars Muhammad Waqas (01-281181-001) and M. Hasan Danish Khan (01-281172-001) who are enrolled in the PhD (EE) program. The candidates appeared in their research proposal defense and the respective panels suggested changes in the title of research. FRC was requested to approve the revised research titles.

#### **Decision**

26. FRC approved the revised titles of research for PhD candidates Muhammad Waqas (01-281181-001) and M. Hasan Danish Khan (01-281172-001). The revised titles are listed in **Annex-IX**.

**Action by:** HoD EE, BUIC

### **Item 11.10 Cancellation of the Candidacy of MS Student**

#### **Discussion**

27. HoD E&ES, BUIC, presented the case of MS candidate Mr. Muhammad Arsalan (01-262172-022) enrolled in the MS Geo-Physics program. The supervisor of the candidate (Dr. Muhsan Ehsan) has submitted three unsatisfactory progress reports to the department. The student was informed by the Department to present himself in front of the DRC and give reasons for the un-satisfactory progress. The candidate, however, did not appear in front of DRC and remained absent without showing any progress at all. The DRC recommended cancellation of candidacy of the candidate.

#### **Decision**

28. 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 student Mr. Muhammad Arsalan (01-262172-022). Subsequent processing is to be carried out by the department in accordance with the MS/MPhil Rules.

**Action by:** HoD E&ES, BUIC

### **Item 11.11 Change of Supervisor – PhD Candidate**

#### **Discussion**

29. HoD CS, BUIC, presented the case of PhD scholar Ms. Maryam Khalid Multani (01-284182-001), enrolled in the PhD (CS) program. Dr. Moneeb Gohar was appointed as her principal supervisor while Dr. Kashif Naseer was guiding her as co-supervisor. The candidate has cleared her comprehensive exam in March 2020 and currently she is working on her research proposal document.
30. At the time of admission of the candidate, Dr. Kashif was not eligible for PhD supervision due to inadequate post-PhD experience. Dr. Kashif is now eligible for PhD supervision in accordance with the HEC rules. The candidate has requested to appoint Dr. Kashif as the principal while Dr. Moneeb as the Co-supervisor.

31. HoD EE, BUIC presented the cases of PhD candidates Mr. Faheem Haroon (01-281172-005) and Mr. Syed Umaid Ali (01-281172-006). Both the candidates were working under the supervision of Dr. Aamir and after his resignation from services at BU, Dr. Atif Jaffri was temporarily appointed as the principal supervisor.
32. Dr. Asad Waqar, Associate Professor in the department of EE, BUIC was nominated as the principal supervisor of both the candidates.

#### **Decision**

33. FRC approved the appointment of Dr. Kashif Naseer as the principal while Dr. Moneeb Gohar as the co-supervisor of the PhD candidate Ms. Maryam Khalid Multani (01-284182-001).
34. FRC approved the appointment of Dr. Asad Waqar as the principal supervisor of PhD candidates Mr. Faheem Haroon (01-281172-005) and Mr. Syed Umaid Ali (01-281172-006).

**Action by:** Concerned HoDs

#### **Item 11.12 Extension in Time Bar of PhD Scholars**

##### **Discussion**

35. HoD CS, BUIC, presented the case of Ms. Momina Moetesum (Enrolment #: 01-284142-001) who is enrolled in the PhD (CS) program and her thesis is presently under internal evaluation. The candidate completed the extended program duration of six years in Spring 2020 and DRC has requested the FRC to grant her one year extension so that the subsequent processing of thesis can be carried out.
36. Mr. Yousaf Zia (01-284132-003), enrolled in the PhD (CS) program at BUIC completed six years of enrolment in Spring 2019 and was granted one year extension. The candidate has completed the publication requirements of PhD and is presently in the phase of writing the thesis. Advisory committee of the candidate was confident that the candidate would be able to submit the thesis to the department by the end of September 2020. FRC was requested to recommend one year extension for the candidate to the honorable Rector.
37. 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 the candidate was enrolled in Spring-2014, but department could not offer her courses due to low student strength. Hence, she started her course work in Fall-2014. Furthermore, prior to her admission in BU, she got admission in SZABIST in Fall 2011 and two of her courses in the PhD course work were transferred. Her thesis is presently under internal evaluation and FRC was requested to grant her extension of one year.
38. Mr. Taimoor Zafar (01-281142-002) 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.



39. HoD SE, IC presented the case of PhD scholar Adeel M Syed (01-281132-001) who has cleared the foreign evaluation of his PhD thesis and is awaiting his final defense. The candidate was granted an extension of one year by the FRC. FRC was requested to recommend one year further extension in the program duration to the honorable Rector.
40. Mr. Ikram ul Haq (01-281142-002) enrolled in the PhD (SE) program at BUIC has completed six years of extended program duration and FRC was requested to grant an extension of one year in the PhD program duration.
41. Ms. Samina Rafiq (01-281142-001) is enrolled in the PhD (EE) program at BUIC is in process of writing her PhD thesis and has completed six years of extended program duration. HoD EE, BUIC, requested the FRC to grant one year extension in the program duration.
42. HoD E&ES, KC presented the cases of three PhD scholars, Muhammad Irfan (02-282142 -003), Farooq Ali (02-282142-001) and Muhammad Idress (02-282142-002) who have completed six years of extended program duration and one year extension was requested by the department.

#### Decision

43. For PhD candidate Ms. Hina Shakir (02-281141-001) it was observed that since she transferred her credits from SZABIST to BU, the total duration of enrollment in the PhD program is beyond six years. In such cases, FRC is not authorized to grant an extension and the department was asked to process the case on file.
44. For other PhD scholars, 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-X.

Action by: Concerned HoDs

#### Item 11.13 Ratification: Change in External Examiner for PhD Proposal Defense

#### Discussion

45. HoD E&ES, BUIC presented the case of PhD scholar Mr. M. Nofal Munir (01-286172-001). FRC, in its 8th meeting, had approved Dr. Muhammad Mujataba as one of the two external examiners for the PhD proposal defense of the candidate. However, due to the sad demise of Dr. Muhammad Mujtaba, the department got approval of Dr. Mumtaz Shah as an external examiner for the proposal defense. Approval for the change of examiner was granted by Dean (ES) on file. FRC was requested to ratify the change of external examiner.

#### Decision

46. FRC ratified the change of external examiner (for proposal defense) of PhD scholar Mr. M. Nofal Munir (01-286172-001) from Dr. Muhammad Mujtaba to Dr. Mumtaz Shah.

Action by: None

**Item 11.14 Ratification: Change in External Examiners for MS Thesis Defense****Discussion**

47. Cases of MS students were presented whose external examiners were approved by the FRC but the examiners could not be available for the thesis defense. Approval for the change of these examiners was granted by Dean (ES) on file. FRC was requested to ratify the change of external examiners.

**Decision**

48. FRC approved the ratification of external examiners for the MS thesis defense of the candidates listed in **Annex-XI**.

**Action by:** None

**Item 11.15 Appointment of Co-Supervisor for PhD Student****Discussion**

49. HoD SE, BUIC presented the case of PhD candidate Mr. Farrukh Shahzad (01-281162-001) who was being supervised by Dr. Shahid Nazir Bhatti who has proceeded to study leave in September 2019. The candidate has requested for the appointment of an appropriate co-supervisor for smooth conduct of research. DRC recommended Dr. Awais Majeed as the potential co-supervisor.

**Decision**

50. FRC approved the appointment of Dr. Awais Majeed as co-supervisor of PhD scholar Mr. Farrukh Shahzad (01-281162-001). Appointment details are summarized in **Annex-XII**.

**Action by:** HoD SE, BUIC

**Item 11.16 Change of PhD Advisory Committees****Discussion**

51. HoD SE, KC presented the case of PhD scholar Engr. Mahawish (02-200182-006). The advisory committee of the candidate was approved in 9<sup>th</sup> FRC meeting. Dr. M. Usama, Senior Assistant Professor and one of the committee members in her advisory committee, resigned last year. FRC was requested to replace Dr. M. Usama with Dr. Sohaib Ahmed (HoD, Software Engineering) in her advisory committee.
52. HoD SE, IC presented the cases of PhD scholars whose advisory committees need to be reconstituted. The house was informed that few of the members in advisory committees had proceeded to study leave while few of the external members were not playing an active role.

**Decision**

53. On recommendation of the respective DRCs, FRC approved the revised advisory committees of the presented PhD candidates. The approved committee are listed in **Annex XIII**.

**Action by:** Concerned HoDs

#### **Item 11.17 Recommendation of Examiners for PhD Final Defense**

##### **Discussion**

54. HoD EE, BUIC requested the FRC to recommend appropriate internal and external examiners for the final PhD Defense of PhD scholar Ali Mustafa (01-281131-002).
55. HoD SE, BUIC presented the case of PhD candidate Mr. Adeel M. Syed (01-281132-001) who has received positive reports from the foreign evaluators and needs to appear for the final PhD defense. FRC was requested to recommend an appropriate panel of examiners for the final PhD defense of the candidate.

##### **Decision**

56. FRC recommended internal and external examiners for the final PhD defense of Mr. Ali Mustafa (01-281131-002) and Mr. Adeel M. Syed (01-281132-001). The recommendations are listed at **Annex-XIV** and will be submitted to the honourable Rector for the selection of final panel.

**Action by:** Concerned HoDs

#### **Item 11.18 Ratification: Appointment of Examiners for MS Thesis Defense**

##### **Discussion**

57. HoD SE, IC presented the cases of MS students for which the approval of examiners was sought on file from Dean (ES). FRC was requested to ratify the appointment of examination panels.

##### **Decision**

58. FRC approved the ratification of examiners for the MS thesis defense of the candidates listed in **Annex-XV**.

**Action by:** None

#### **Item 11.19 Removal of Supervisor Details from Proposal, Presentation and Thesis Draft**

##### **Discussion**

59. PGP Coordinator SE department, BUIC presented the agenda item to remove supervisor details from the proposal document, the presentation, and the thesis draft to make the evaluation impartial.
60. Majority of the FRC members argued that removing supervisor details is neither practical nor is being practiced in any of the reputed universities within or outside the country. Supervisor is one of the key stakeholders in research and hiding the identity of supervisor in key stages of evaluation of research was not supported by the members.



### Decision

61. The agenda item to remove supervisor details from proposal document, presentation and thesis draft was dropped.

Action by: None

### Closing Remarks

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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

August 26, 2020



**Annex-I: 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	Naseer Amin 01-242172-006	Improving Energy and Transmission Control of Heterogeneous Wireless Sensor Network by using Fog Node	MSCE	Dr. Shahzad Hassan	Dr. Kashif Naseer Qureshi	Dr. Rizwan Ahmed SEECS-NUST
2	Ali Arslan 01-242172-001	Energy Efficient Node Deployment Strategy in Heterogeneous Wireless Sensor Networks	MSCE	Dr. Shahzad Hassan	Dr. Faisal Bashir	Dr. Rizwan Ahmed SEECS-NUST
3	Noshaba Tariq 01-242182-007	Performance Evaluation of Channel Estimation/ Equalization Techniques in Communication Systems	MSCE	Dr. Shahzad Hassan	Dr. Khalid Javed	Dr. Sajjad Ahmed Madani Comsats Islamabad
4	Muhammad Irfan 01-242182-005	An Abstractive Text Summarization Using Deep Sequence Models	MSCE	Dr. Shehzad Khalid	Dr. M. Asfand-e-yar	Dr. Arslan Shaukat, CEME, NUST
5	Syed Adeel Abbas 01-242182-009	Routing Solution for Drone Assisted Internet of Vehicular	MSCE	Dr. Kashif Naseer Qureshi	Dr. Shahzad Hassan	Dr. Syed Jawad Hussain, HITEC University
6	Syed Shabbar Altaf 01-242182-010	Hardware Programming of Feed Forward Neural Connectionist Networks	MSCE	Dr. Khalid Javed	Dr. Muhammad Najam-ul-Islam	Dr Syed Hashim Raza COMSATS, Attock
7	Ali Ahsan 01-242182-001	Image Forgery Detection Using Natural Scene Statistics	MSCE	Dr. Imran Fareed Nizami	Dr. Samabia Tehseen	Dr. Ayyaz Hussain QAU
8	Rafi Ullah Khan 01-242182-008	Fake News Detection Using Deep Neural Networks.	MSCE	Dr. Shehzad Khalid	Dr. Imran Siddiqi	Dr. Farhan Riaz E&ME, NUST
9	Muhammad Hamza 01-242182-004	Detection of Intracranial Hemorrhage and Its Subtypes using Machine Learning and Deep Learning Techniques/ Models	MSCE	Dr. Amina Jameel	Dr. Sumaira Kausar	Dr. Farhan Riaz E&ME, NUST
10	Muhammad Tauqeer 01-242182-006	Clothing Effects and Carrying Conditions based Human Gait Analysis and Identification	MSCE	Dr. Amina Jameel	Dr. Sumaira Kausar	Dr. Ayyaz Hussain, QAU



### Appointment of Examiners for MS Thesis Defense

SE Department, Karachi Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Sara Jamil (02-241182-001)	Comparative Analysis of Resource Scheduling Algorithms in Heterogeneous Fog Topology	MS (SE)	Dr. Sohaib Ahmed (Dr Rehan Qureshi)	Dr. Osama Rehman	Dr. Aqeel-ur-Rehman, SSUET
2	Muhammad Tauseef (02-241181-001)	IoT Enabled Grocery Shopping Recommendation System Using Machine Learning Technique	MS (SE)	Dr. Sohaib Ahmed (M. Faisal)	Dr. Salahuddin	Dr. Najeed Ahmed, NED



**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	Irshad Ali 03-243182-035	User Interface Design Framework For Children With Dyslexia	MSCS	Dr Irum Noreen (Dr. Abdul Hafeez)	Dr Muhammad Aasim Qureshi	Dr Faiza Iqbal
2	Uzma Akram 03-243182-026	Human Gesture Estimation Using Depth Data	MSCS	Dr Irum Noreen	Mr. Asim Ali	Dr Amna Khan
3	Muhammad Umar Khan 03-243182-016	Human Activity Recognition By Deep Learning Methodology	MSCS	Dr Irum Noreen	Mr. Asim Ali	Dr Amna Khan
4	Maryam Munawar 03-243182-038	Identification Of Forgery In Video Using Neural Network	MSCS	Dr Irum Noreen	Mr. Asim Ali	Dr Allah Buksh
5	Shoaib Khan 03-243182-036	A Novel Framework For Scholarly Article Recommendation System	MSCS	Dr Ghulam Mustafa (Mr. Noman Aslam)	Dr. Iram Noreen	Adnan Nabeel Abid Qureshi
6	Mavra Zia 03-243182-009	Sentiment Analysis On Kids Cartoon Review	MSCS	Dr M. Aasim Qureshi	Dr. Ghulam Mustafa	Dr Amjad Iqbal
7	Unaza Sajid 03-243182-029	Symptoms Based Cancer Disease Prediction	MSCS	Dr M. Aasim Qureshi	Mr. Asghar Ali Shah	Dr Adnan Abid
8	Zafran Elahi 03-243182-030	An Intelligent Health Threat Prediction : A Case Study For Pilgrims Of Hajj	MSCS	Dr M. Aasim Qureshi	Dr. Iram Noreen	Dr Adnan Abid
9	Javaria Azka 03-243182-033	Symptoms Based Intelligent Liver Disease Prediction Models And Their Performance Analysis	MSCS	Dr M. Asim Qureshi (Dr Ghulam Mustafa)	Dr . Abdul Hafeez	Dr Amjad Iqbal
10	Iqra Ashraf 03-243182-037	Multisensory Platform For Motor Disable Students Using TOPSIS Technique	MSCS	Dr Abdul Hafeez (Ms Sarah Chaudry)	Dr. Khwaja Qasim	Dr Ansar Siddique
11	Awais Ashraf 03-243182-004	Multi-Criteria Decision Analysis To Evaluate User Interface Of E-Commerce Platforms	MSCS	Dr Abdul Hafeez (Dr Ghulam Mustafa)	Dr. Khurrrm Ehsan	Dr Farrukh Zeeshan
12	Usama Sajid 03-243182-025	Implementing A User-Centered Design To Enhance The Usability Of Mobile Banking Application For Uneducated Users	MSCS	Dr Abdul Hafeez (Ms Fakhra Batool)	Dr. Khurrrm Ehsan	Dr Ansar Siddique



Faculty of Engineering Sciences, Bahria University, Islamabad.

13	Muhammad Saqib (03-243172-019)	Recommender System For Urdu News Text	MSCS	Mr. Aasim Ali	Dr. M. Aasim Qureshi	Dr. M. Kamran Malik
14	Muhammad Asad Nabeel Yousaf (03-243172-024)	Generating Abstract From Research Articles	MSCS	Mr. Aasim Ali	Asghar Ali Shah	Dr. M. Kamran Malik
15	Maham Sheikh (03-243182-032)	Optimal Recommendation Algorithm To Enhance Usability In Related-Article	MSCS	Dr. Khawaja Qasim	Dr. Ghulam Mustafa	Dr Farooq Ahmad
16	Muhammd Bilal (03-243172-032)	A Novel Framework for research papers recommendation System	MSCS	Dr. Ghulam Mustafa (Dr. Muhammad Aasim Qureshi)	Mr. Asghar Ali shah	Dr Arfan Ali Nagra





**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.	AMNA ILYAS (01-243172-003)	Meaningful Data retrieval of copyright cases	MS(CS)	Dr. Asfand e Yar	Dr.Arif-Ur-Rehman	Dr. Seemab Latif
2.	UMEMA ARISHA (01-243172-037)	Indexing Multilingual Health Related Documents for Improved Query Suggestions	MS(CS)	Dr. Asfand e Yar	Dr. Sabina Akhtar	Dr. Arslan Shaukat
3	ANUM ALEEM (01-243182-003)	TARGET CLASSIFICATION OF MARINE DEBRIS USING DEEP LEARNING	MS(CS)	Dr. Samabia Tehsin	Dr. Imran Siddiqi	Dr. Khurram Khurshid
4.	AYESHA SADAQAT (01-243182-005)	Text Summarization of Talk Show Videos Using Machine Learning Technique	MS(CS)	Dr. Asfand e Yar	Dr. Imran Siddiqi	Dr. Hammad Afzal
5.	BASIT ISMAIL (01-243182-006)	Gait Recognition using View Covariate	MS(CS)	Dr.Sumaira Kausar(Dr. Amna Jameel)	Dr.Samabia Tehsin	Dr. Abdul Basit
6.	FARAH JAVED (01-243182-007)	Analysis of Static and Dynamic Attributes Handwriting as Potential Indicators of Parkinson's Disease	MS(CS)	Dr. Imran Siddiqi	Dr. Samabia Tehsin	Dr. Farhan Riaz
7.	SIDRA KANWAL (01-243182-018)	CLASSIFICATION OF REAL AND AI GENERATED FAKE IMAGES	MS(CS)	Dr. Samabia Tehsin	Dr. Muhammad Muzammil	Dr. Ayyaz Hussain
8.	SOBIA DASTGEER (01-243182-019)	Title Generation of Talk shows	MS(CS)	Dr. Asfand e Yar	Dr. Imran Siddiqi	Dr. Hammad Afzal
9.	DAWLAT ZAI (01-243182-022)	Coral Reef Images classification using Deep Learning	MS(CS)	Dr. Arif ur Rehman	Dr.Moazzam	Dr. Waseem Shahzad
10.	MALIHA KHAN (01-243182-025)	Image manipulation detection	MS(CS)	Dr. Samabia Tehsin	Dr. Sumaira Kausar	Dr. Amanullah Yasin



Faculty of Engineering Sciences, Bahria University, Islamabad.

11.	AHMED HASSAN (01-249182-002)	Semantic Video Retrieval using Natural Language Queries	MS(DS)	Dr. Imran Siddiqi	Dr. Asfand e Yar	Dr. Rashid Ahmad
12.	HUSSAIN WAHEED AKHTAR(01-249182-004)	Cardiovascular Disease Risk Predication Using Machine Learning Techniques	MS(DS)	Ms. Momina Moetesum	Dr. Arif ur Rehman	Dr. Waseem Shahzad
13.	MUHAMMAD NABEEL EJAZ(01-249182-011)	Feature selection for image quality assesment	MS(DS)	Dr. Imran Farid Nizami	Dr. Arif ur Rehman	Dr. Rashid Ahmad
14.	MUHAMMAD SOHAIB SHEIKH(01-249182-013)	Facial Forgery Detection of Deepfake videos	MS(DS)	Dr. Samabia Tehsin	Dr. Imran Siddiqi	Dr. Naveed Ejaz
15.	QASIM MEHMOOD(01-249182-018)	Islamophobic Hate Speech Detection from Electronic Media	MS(DS)	Dr. Imran Siddiqi	Dr. Samabia Tehsin	Dr. Hammad Majeed
16.	RAZA ULLAH(01-249182-019)	Kidney Tumor Segmentation	MS(DS)	Dr. Samabia Tehsin	Dr.Sabina Akhtar	Dr. Rashid Hussain
17.	MAHTAB AHMAD(01-249182-021)	Exploiting Transliterated Words for Similar Inter-lingual News-stories Identification	MS(DS)	Dr. Arif ur Rehman	Dr. Muhammad Muzammil	Dr. Tassawar Iqbal
18.	MUHAMMAD HASEEB ASLAM(01-249182-022)	Effective Feature Extraction Techniques for Increasing Robustness of Seizure Prediction System	MS(DS)	Dr. Shahzad Khalid	Dr. Imran Fareed	Dr.Rashid Ahmad
19.	MUHAMMAD OSAMA ZEESHAN(01-249182-023)	Assessment of Cognitive Development in Children through Computerized Analysis	MS(DS)	Dr. Imran Siddiqi	Dr. Tamim	Dr. Abdul Basit
20.	WALEED HASSAN(01-249182-027)	Automatic Damage Building Detection And Damage Assessment From Satellite Images	MS(DS)	Dr. Sumaira Kausar	Dr. Asfand e Yar	Dr. Amanullah Yasin



Faculty of Engineering Sciences, Bahria University, Islamabad.

21.	MUHAMMAD ARSLAN SALEEM SANDILA(01-247172-013)	An Efficient Authentication Scheme for Safety Applications for Internet of Vehicles	MS(IS)	Dr. Kashif Naseer	Dr. Khalid Javed	Dr. Amir Habeeb
22.	FAISAL AJAIB KAYANI(01-247172-023)	Interoperability and security for data authentication scheme for body area networks	MS(IS)	Dr. Kashif Naseer	Dr. Faisal Bashir	Dr. Kashif Kifayat
23.	HASEEB AKBAR(01-247181-004)	AUTOMATED SNORT SIGNATURE GENERATION	MS(IS)	Sajjad Shah	Dr. Moazzam	Dr. Mansoor Ahmed
24.	ANIS MUSTAFA(01-247182-001)	Framework for Extracting Features from Dynamic Analysis and Memory Images	MS(IS)	Dr. Ibrahim Tariq (Dr. Faisal Bashir)	Dr. Moneeb Gohar	Dr. Tanvir Afzal
25.	HASSAN QADEER(01-247182-002)	Bridging IDS Signatures and YARA rules for Malware detection	MS(IS)	Dr. Faisal Bashir	Dr Moazzam	Dr. Kashif Kifayat
26.	INZAMAM UL HAQ(01-247182-004)	Anomaly detection pre-processor for SNORT IDS systems	MS(IS)	Sajjad Shah	Dr. Faisal Bashir	Dr. Tanvir Afzal
27.	MOIN UDDIN(01-247182-005)	Reinforcement of low Rated Nodes in Blockchain IoT	MS(IS)	Dr. Muhammad Muzammil	Dr. Awais Majeed	Dr Irfan ul Haq
28.	SHAFaq MUNIR(01-247182-014)	EFFICIENT SIGNATURE PRODUCTION USING FTP BASED VIRTUAL HONEY POT	MS(IS)	Dr. Faisal Bashir	Dr. Moneeb Gohar	Dr. Saleem Iqbal
29.	SHAHID MEHMOOD(01-247182-015)	Multi-Server Authentication Using Blockchain	MS(IS)	Dr. Ibrahim Tariq	Dr. Muhammad Muzammil	Dr. Irfan ul Haq
30.	SIDRA MAHNOOR(01-247182-016)	Data fusion in multi body sensor network and health monitoring	MS(IS)	Dr. Muhammad Muzammil	Dr.Arif-Ur-Rehman	Dr. Tariq Umer
31.	ZEESHAN MASOOD(01-247182-017)	Secure Distributed Mobility Management support for 6LoWPAN Network	MS(IS)	Dr. Moneeb Gohar	Dr. Kashif Naseer	Dr. Tariq Umer



Faculty of Engineering Sciences, Bahria University, Islamabad.

32.	MUHAMMAD SHAKEEL(01-247182-020)	An Enhanced Secure Distributed Mobility Management Scheme for Building IoT Applications	MS(IS)	Dr. Moneeb Gohar	Dr. Kashif Naseer	Dr. Khalid Mehmood Awan
33.	AQIB SAEED(01-247182-021)	Enhanced Security for Distributed LISP Network	MS(IS)	Dr. Moneeb Gohar	Dr. Faisal Bashir	Dr. Majid Iqbal Khan
34.	MUHAMMAD KHURRAM HAMEED(01-247182-022)	Post quantum cryptography algorithms' acceleration trends and optimal limits	MS(IS)	Dr. Ibrahim Tariq	Dr. Khalid Javed	Dr. Naveed Riaz
35.	MUHAMMAD UMAR FAROOQ(01-247182-023)	Aggregation and Correlation of Intrusion Detection Alerts	MS(IS)	Dr. Faisal Bashir	Dr. Najam	Dr. Majid Iqbal Khan
36.	MUHAMMAD JALAL SHAH(01-247182-026)	Automated Rule Generation for Intrusion Detection System Using Service-based T-Pot	MS(IS)	Dr. Faisal Bashir	Dr. Atif Jaffri	Dr. Kashif Kifayat
37.	ZARA SHAHID(01-245182-010)	Design and Analysis of Quantum Computing based key distribution algorithms	MS(TN)	Dr. Najam ul Islam (Madiha Zohaib)	Dr. Moazzam	Dr. Muhammad Khalil Afzal
38.	ASMA JABEEN(01-248182-001)	Flow of Tangent Hyperbolic nanofluid in Darcy-Forchheimer porous medium over a stretching cylinder with motile gyrotactic microorganism	MS(Maths)	Dr. Muhammad Ramzan	Dr. Rizwan ul Haq	Dr. Umer Farooq
39.	HUDA CHOUDRY(01-248182-002)	Flow analysis of gamma -alumina nanofluid near a stagnation point	MS(Maths)	Dr. Jafar Husnain	Dr. Rizwan ul Haq	Dr. Tariq Javed
40.	JUNAID MEHBOOB(01-248182-003)	Influence of nanoparticles on blood through peristaltic flow along a vertical porous sinusoidal channel in the presence of thermal radiation and heat absorption/generation	MS(Maths)	Dr. Rizwan ul Haq	Dr. Nazia Talat	Dr. Sohail Nadeem



Faculty of Engineering Sciences, Bahria University, Islamabad.

41.	RABIA RIAZ(01-248182-004)	Buoyancy assisting and opposing flow of Jeffrey fluid model with zero mass flux of nanoparticle along a vertically moving surface	MS(Maths)	Dr. Rizwan ul Haq	Dr. Jafar Husnain	Dr. Masood Khan
42.	SALIHA MAHMOOD(01-248182-005)	Darcy–Forchheimer Casson nanofluid flow over a stretching cylinder with Arrhenius activation energy and gyrotactic microorganisms	MS(Maths)	Dr. Muhammad Ramzan	Dr. Jaffar Husnain	Dr. Rab Nawaz
43.	UMAR FAROOQ(01-248182-006)	Thermal slip analysis of a Casson fluid in a channel	MS(Maths)	Dr. Jafar Husnain	Dr. Muhammad Ramzan	Dr. Nasir Ali
44.	HAFAEEZ AKHTER(01-248182-007)	MELTING HEAT TRANSFER IN THE FLOW OF CARREAU NANOFLUID PAST A STRETCHING CYLINDER IN A DARCY FARCHHEIMER POROUS MEDIUM	MS(Maths)	Dr. Muhammad Ramzan	Dr. Nazia Talat	Dr. Amer Bilal Mann
45.	MUHAMMAD USMAN KHAN(01-248182-008)	Nonlinear radiative MHD Williamson nanofluid flow over a stretching cylinder in a Darcy-Forchheimer porous medium	MS(Maths)	Dr. Muhammad Ramzan	Dr. Rizwan ul Haq	Dr. Nasir Rehman



Faculty of Engineering Sciences, Bahria University, Islamabad.

**Appointment of Examiners for MS Thesis Defense**  
**E & ES Department, Islamabad Campus**

<b>Sr.</b>	<b>Name (Enrolment #)</b>	<b>Thesis Title</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Internal Examiners</b>	<b>External Examiners</b>
1	Syed Wajahat Hussain (01-262181-024)	Assessment of Produced Water Quality from Naspha Oil Field, Karak, Khyber Pakhtunkhwa, Pakistan	MS (ES)	Dr. Said Akbar Khan	Mr. Asif Javed	Dr. Ashiq Muhammad



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

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Aaminah Ali (01-241182-001)	Cyberbullying Detection using Machine Learning	MS (SE)	Adeel M. Syed (Dr. Kasfif Sultan)	Dr Sohaib Ahmed (BUKC)	Dr Arsalam Shokat
2	Ameema Sattar (01-241182-006)	Sentiment Analysis Based On Reviews Using Machine Learning Techniques	MS (SE)	Joddatt Fatima (Dr. Kashif Sultan)	Dr Tamim Ahmed Khan	Dr Usman Qamar
3	Anum Shahid (01-241182-007)	Intelligent Cloud Resource Failure Prediction	MS (SE)	Dr Awais Majeed (Sadaf Frahan)	Dr Tamim A Khan	Dr Irfan ul Haq
4	Babar Ali (01-241182-009)	Resource Scheduling for Transparent Computing through Blockchain	MS (SE)	Dr Awais Majeed (Dr Zeshan Iqbal)	Dr Muhammad Muzammil	Dr Irfan Ul Haq
5	Danyal Rashid (01-241182-010)	DNN Based Gait Recognition for Human Identification Using Convolution Part Heatmap Regression	MS (SE)	Dr Ahmad Ali	Mr. Adeel M Syed Dr Shahzad Khalid Dr. Samabia	Dr. Usman Akram
6	Khadija Fazal (01-241182-018)	Securing Internet of Things for Smart Applications: A Comparative Study	MS (SE)	Adeel M Syed	Dr. Osama Rehman (BUKC)	Dr. Brig Mukarram
7	Komal Sadiq (01-241182-019)	Speech Recognition Using Artificial Neural Networks	MS (SE)	Adeel M Syed	Dr. Imran Siddiqi	Dr Usman Qamar
8	Uzair Hussain (01-241182-039)	Detection of Malaria in Microscopic Images	MS (SE)	Dr Ahmad Ali	Mr. Adeel M Syed	Dr Usman Akram
9	Sana Arooj (01-241182-050)	Pairwise Testing of Cyber Physical System	MS (SE)	Dr Tamim A Khan	Dr Awais Majeed	Dr Noman Malik
10	Laraib Farooq Khan (01-241182-054)	A DevOps Framework for Continuous Practice in Software Development Process Improvement Using Traceability and Reducing Test Cost	MS (SE)	Dr Tamim A Khan	Dr Kashif Sultan	Dr Asim Noor
11	Asim Alvi (01-241182-057)	A Hybrid Model for Classification and Feature Extraction Using Machine Learning Techniques	MS (SE)	Dr Kashif Sultan (Adeel M Syed)	Dr Sohaib Ahmed (BUKC)	Dr. Khawar Khurshid
12	Ayesha Zaheer (01-246182-003)	The Adoption Patterns of Knowledge Management Systems in SMEs: An In-Depth Study to Investigate the Drivers and Inhibitors	MS (EM)	Bilal Ashraf Awan	Dr. Zahoor Sheikh	Dr. Asim Nisar
13	Farah Ashraf (01-246182-005)	Investigating the Negative Impact of Technology on Children	MS (EM)	Dr Zahoor Sarwar	Dr Sabeen	Dr. Asim Nisar



Faculty of Engineering Sciences, Bahria University, Islamabad.

14	Muhammad Ahmad Iqbal (01-246182-018)	Factors Affecting the Adoption of Net Metering: A Case Study of IESCO	MS (EM)	Bilal Ashraf Awan	Dr. Zahoor Sheikh	Dr. Ansar A Rajput
15	Sobia Iqbal (01-246182-022)	Investigating the Impacts of Information Technology on Women Entrepreneurs in Urban Areas of Islamabad and Rawalpindi	MS (EM)	Bilal Ashraf Awan	Dr Abdul Baseer Qazi	Dr. Faheem Qaisar Jamal
16	Rabia Kousar (01-246182-023)	Impact of the dimensions of green supply chain management practices on organizational performance: A study of telecommunication industry in Pakistan	MS (EM)	Bilal Ashraf Awan (Dr Ismail Ramay)	Dr Abdul Baseer Qazi	Dr. Faheem Qaisar Jamal





**Appointment of Examiners for MS Thesis Defense**

**E&ES Department, Karachi Campus**

<b>Sr.</b>	<b>Student Name (Enrolment #)</b>	<b>Thesis Title</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Internal Examiner</b>	<b>External Examiner</b>
1	FATIMA KANWAL QURESHI (02-262171-001)	Conversion of Organic Waste into biochemical for climate change mitigation	MS(ES)	Dr. Yasmin Nergis	Prof. Dr. Syed. Shahid Ali	Prof. Dr. Hussain. H. Rizvi
2	SHABEE UL HUSNAIN (02-262171-002)	GAP analysis in EIA process and regulatory framework in Pakistan	MS(ES)	Dr. Yasmin Nergis	Prof. Dr. Syed Shahid Ali	Prof. Dr. Ahmad Hussain
3	Syed Shah HAMID MOHIUDDIN (02-262171-004)	Saline Soil remediation by using humic acid as an natural surfactant	MS(ES)	Dr. Yasmin Nergis	Dr. Salma Hamza	Prof. Dr. Iqbal H. Hashmi
4	SAJID NAZIR (02-262171-003)	Dust Impact assessment from a point source with the help of air dispersion modeling in Bin Qasim Karachi	MS(ES)	Dr. Yasmin Nergis	Dr. Ansa Ruqqaya (BUIC)	Prof. Dr. Kaneez Fatima



### 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	ADNAN JANNAT 01-244191-001	Hardware implementation using convolutional neural networks for modulation classification	MS EE	Dr. Atif Raza Jafri	Dr. Imran Fareed	Dr. Usman Zabit, NUST
2	AFRASYAB ALI KHAN 01-244191-002	Fault Diagnosis of PV Modules during MPP tracking for Distributed MPP controllers	MS EE	Dr. Jawad Ahmad (Dr. Imtiaz Alam)	Dr. Asad Waqar	Dr. Azhar ul-haq, NUST
3	AHMAD YOUSHA 01-244191-003	Speed Control of a Permanent magnet synchronous motor using a robust Nonlinear controller	MS EE	Jehanzeb Ahmad ( Nadia Imran )	Dr. Asim Ali Shah	Dr. Hassan Abdullah Khalid, NUST
4	AHSAN ILYAS 01-244191-004	FPGA based hardware abstraction of quantum computing system	MS EE	Dr. Najam ul Islam (Madiha Zohaib)	Dr. Khalid Javed	Dr Naveed Riaz, PAEC
5	MUHAMMAD HAMMAD SAFDAR 01-244191-013	Maximum Power point tracking of PV Arrays under partial shading conditions using Improved Algorithm.	MS EE	Dr. Jawad Ahmad (Dr. Imtiaz Alam)	Dr. Asad Waqar	Dr. M. Shoaib Khalid, FAST NU
6	MUHAMMAD HAMZA SAEED 01-244191-014	Fault diagnosis in PV modules during field operations without performing specialized diagnostic tests	MS EE	Dr. Jawad Ahmad (Dr. Imtiaz Alam)	Syed Umaid	Dr. M. Shoaib Khalid, FAST NU
7	NADEEM KHAN 01-244191-015	Optimal communal demand response program using BRO Algorithm.	MS EE	Dr. Imtiaz Alam	Dr. Asim Ali Shah	Dr. Intisar Ali Sajjad, UET Taxila
8	SHARJEEL NISAR 01-244191-016	Optimum energy management system in smart grid power system using QDSA	MS EE	Dr. Asim Ali Shah	Nadia Imran	Dr. Intisar Ali Sajjad, UET Taxila
9	SYED ALI ASJAD NAQVI 01-244191-017	Prototyping of power converters using wide band semiconductors for EV applications	MS EE	Dr. Syed Haider Abbas (Dr. Asim Ali Shah)	Faheem Haroon	Dr. Muhammad Zahid, RIPHAH UNI
10	TARIQ SAEED 01-244191-018	LDPC decoder Implementation for 5G Applications	MS EE	Dr. Atif Raza Jafri	Dr. M. Najam ul Islam	Dr. Muhammad Awais, CUI
11	ABDUL REHMAN 01-244191-020	Demand Side Management in Smart Grid Power System using Hybrid Bacterial Foraging and Genetic Algorithm	MS EE	Dr. Asim Ali Shah	Faheem Haroon	Dr. Muhammad Zahid, RIPHAH UNI
12	ANUM ZAHRA 01-244191-023	modelling of non-uniform heterogeneous cellular network for 5G networks and Beyond	MS EE	Dr. Asim Ali Shah (Madiha Zohaib)	Adil Ali Raja	Dr. Aamir Habib, IST



Faculty of Engineering Sciences, Bahria University, Islamabad.

13	MUHAMMAD JUNAID 01-244191-025	DG Allocation in Power Systems for Voltage Profile and Power Loss Improvement	MS EE	Dr. Asad Waqar	Dr. Asim Ali Shah	Dr. Saqib Haroon, UET Taxila
14	MUHAMMAD ALEEM UZ ZAMAN 01-244191-021	Simulation and modeling of 3D solar irradiance for improved electric vehicle performance	MS EE	Dr. Asim Ali Shah	M. Yaseen	Dr. Shahid Mehmood Khan, KRL
15	Asad Abbas 01-244182-002	Dynamic load flow of CIGRE MV/LV Distribution benchmark model	MS EE	Dr. Asad Waqar	Syed Umaid Ali	Dr. Muhammad Ali Mehmood, KAROT POWER
16	Danish Majeed 01-244182-003	Techno-economic performance assessments of BESS in Microgrids considering various parameters	MS EE	Dr. Asad Waqar	Muneeb Yaqoob	Dr. Saqib Haroon, UET TAXILA
17	Fatima Nisar 01-244182-004	Maximum Power Optimization for Online Electric Vehicles.	MS EE	Dr. Imtiaz Alam (Dr. Syed Haider Abbas)	Dr. Asad Waqar	Dr. Shahid Mahmood Khan, KRL
18	Hamza Iqbal 01-244182-005	Efficient System Properties for 5G networks.	MS EE	Dr. Junaid Imtiaz	Dr. Saleem Aslam	Dr. Zeeshan Kaleem, CUI WAH
19	Imran Ahmad 01-244182-006	Improved Sliding Mode control for parallel inverter in grid connected PV-System	MS EE	Dr. Asad Waqar	Nadia Imran	Dr. Muhammad Seyab Khan, PAEC
20	Muhammad Saleem 01-244182-009	Demand side Management and Optimization of Power System	MS EE	Dr. Syed Haider Abbas (Faheem Haroon)	Dr. Asim Ali Shah	Dr. Abdul Raul Bhatti, GCU FAISALABAD
21	Mudassar Usman 01-244182-020	Efficient Controller Implementation of Single Inductor Multiple Output Converter	MS EE	Dr. Syed Haider Abbas (Muneeb Yaqoob)	Maryam Iqbal	Dr. Abdul Raul Bhatti, GCU FAISALABAD
22	Bilal Saeed Umar 01-244182-019	Smart Energy Management System for Optimal Microgrid Operation.	MS EE	Dr. Asim Ali Shah (Dr. Syed Haider Abbas)	Syed Umaid Ali	Dr. Azhar ul-haq, NUST
23	Asad Nadeem 01-244182-022	Optimal QoS Provisioning FOR Narrow Band IoT Devices Using Machine Learning (Framework for NB-IOT QoS Implement)	MS EE	Dr. Saleem Aslam	Dr. Imran Fareed	Dr. Aamir Habib, IST
24	Usama Umer 01-244182-016	Implementation of Side Channel Resistant Binary Huff Curves on FPGA	MS EE	Dr. Atif Raza Jafri	Madiha Zohaib	Dr. Naveed Riaz, PAEC
25	Musa Hussain 01-244182-012	Design and Analysis of Patch Antenna for Wireless Communications.	MS EE	Dr. Khawaja Qasim Maqbool (Dr. Junaid Imtiaz)	Dr. Imtiaz Alam	Dr. Ali Imran Najam, NECOP



**Appointment of Examiners for MS Thesis Defense**

**CS Department, Karachi Campus**

Sr.	Student Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Muhammad Ahmed Buland Khan 02-243182-002	Load Balancing in Content distribution network using open flow	MS(CS)	Dr. Ghulam Muhammad	Dr. Saira Gillani	Dr. Taha Jillani
2	Sumra Khan 02-243182-023	SDN Data plane vulnerabilities and its security	MS(CS)	Dr. Safdar	Dr. Ghulam Muhammad	Dr. Abbas Ali
3	Syeda Kiran 02-243182-029	Pictorial Assessment of Golden proportion in aesthetics smile using machine learning for Pakistani inhabitants	MS(CS)	Dr Humera Farooq	Dr. Raheel Siddiqi	Dr. Najeed Ahmed Khan
4	Sarwat Ishaque 02-248182-001	Disease triggered by mosquito in tropical region through mathematical approach	MS(Maths)	Dr. Asif Mansoor	Dr. Oyoon Abdul Razzaq	Dr. Faqiha Sultan, NED University
5	Jetha Nand 02-248182-002	Numerical Estimation of parabolic boundary value problem	MS(Maths)	Dr. Asif Mansoor	Dr. Jaffar Hasnain (BUIC)	Dr. Faqiha Sultan, NED University
6	Muhammad Mohi ul Islam 02-248182-003	Investigation forecasting of efficiency Diesel Engine with respect to waste emission	MS(Maths)	Dr. Asif Mansoor	Dr. Oyoon Abdul Razzaq	Dr. Fatima Riaz, IoBM Karachi
7	Asif Sumeer 02-248182-004	Time Series Analysis forecasting and control of heart and kidney disease in diabetic patients	MS(Maths)	Dr. Asif Mansoor	Dr. Talat Rehmani	Dr. Fatima Riaz NED University
8	Waheed Ahmed 02-248182-005	MHD 3D dissipating flow of Eyring Powell NanoFluid past a non-linear stretching sheet	MS(Maths)	Dr. Asif Mansoor	Dr. Muhammad Ramzan (BUIC)	Dr. Muhammad Jamil NED University
9	Syed Ali Imran 02-248182-006	Mathematical Model for estimation of ground level particulate matter concentration in karachi	MS(Maths)	Dr. Asif Mansoor	Dr. Talat Rehmani	Dr. Yousuf Tufail NED University

**Annex-II: Appointment of Examiners for PhD Comprehensive Exam****E&ES Department, Islamabad Campus**

Sr.	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Research Theme	Course	Examiner
1	WAQAR AHMAD (01-286192-001)	PhD (Geo)	Dr. Muhammad Zafar	Diagenetic Modeling and its effects on economic potential of Chilton Limestone Sulaiman Range	Tectonic Evolution of Pakistan	Prof. Dr. Tahseenullah Khan
					Advanced Basin Analysis	Dr Muhammad Iqbal Hajana
					Advanced Petroleum Geology	Dr Muhsan Ehsan
					Reservoir Characterization	Dr Muhammad Iqbal Hajana
2	ASMA KHALIL (01-286192-002)	PhD (ES)	Dr. Asma Jamil	Biochemical response on biomarkers of oxidative stress and associated genotoxicity and histopathology in dams of Pakistan.	Environmental Pollution and Climate Change	Dr Aansa Rukya Saleem
					Advanced Ecosystem Management	Dr Said Akbar
					Environmental Monitoring, Sampling and Analysis	Dr Said Akbar
					Air Pollution & Control	Dr Asma Jamil
3	UMAIR RASHAD (01-286192-003)	PhD (ES)	Dr. Asma Jamil	Seasonal and spatial variation in apportionment of pm10 and pm2.5, their chemical composition in densely populated cities	Environmental Pollution and Climate Change	Dr Aansa Rukya Saleem
					Advanced Ecosystem Management	Dr Said Akbar
					Environmental Monitoring, Sampling and Analysis	Dr Said Akbar
					Air Pollution & Control	Dr Asma Jamil
4.	QADEER AHMAD (01-286192-004)	PhD (GeoPhy)	Dr. M. Iqbal Hajana	Mapping of HC migrations pathways using seismic and geochemistry, Punjab Platform, Pakistan	Tectonic Evolution of Pakistan	Prof. Dr. Tahseenullah Khan
					3D Seismic Attributes for Reservoir Characterization	Dr. Muhammad Fahad Mehmood



Faculty of Engineering Sciences, Bahria University, Islamabad.

					Reservoir Characterization	Dr. Muhammad Iqbal Hajana
					Advanced Petroleum Geology	Dr. Muhsan Ehsan



EE Department, Islamabad Campus

Sr.	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Research Theme	Course	Examiner
1.	Adnan Yaqoob Salik (01-281192-001)	PhD (EE)	Dr. Aatif Raza Jaffri	Design of Application Specific Instruction Set Processor (ASIP) for Error Code and Demodulation Algorithm	Advanced Computer Architecture	Dr. Muhammad Asfand-e-Yar
					Cognitive & Software Defined Radios	Dr. Atif Raza Jaffri
					Deep Learning	Dr. Imran Siddiqi
					Communication Network Architecture & Protocols	Dr. Junaid Imtiaz



CS Department, Islamabad Campus

Sr.	Name (Enrolment #)	Program	Supervisor (Co-Supervisor)	Research Theme	Course	Examiner
1	Junaid Ali Khan (01-284192-001)	PhD (CS)	Dr. Imran Siddiqi	Digital Image Analysis, Pattern Recognition	Advanced Digital Image Processing	Dr. Samabia Tehsin
					Machine Learning	Dr. Sumaira Kausar
					Deep Learning	Dr. Imran Siddiqi
					Pattern Recognition	Dr. Samabia Tehsin
2	Tabinda Sajjad (01-283191-001)	PhD (Mathematics)	Dr. Rizwan ul Haq	Fluid Dynamics	Fluid Dynamics-II	Dr. Jafar Husnain
					Numerical Solution of Partial differential Equations	Dr. Rizwan ul Haq
					Advanced Partial Differential Equations	Dr. Muhammad Ramzan
					ODEs and Computational Linear Algebra	Dr. Nazia Talat





**EE Department, Karachi Campus**

<b>Sr.</b>	<b>Name (Enrolment #)</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Research Theme</b>	<b>Course</b>	<b>Eximiner</b>
1	Mr. Ovais Akhter (02-281192-001)	PhD (EE)	Dr. Najam M. Amin	Ultra-Low Power Transmitter Design for BLE	Advance Digital Communication Systems	Dr. Mukesh Kumar
					Low Power System Design	Dr. Abdul Attayyab Khan
					Advance Digital Signal Processing	Dr. Aurangzeb Rashid
					Advanced Topics in Wireless Networking and Communication	Dr. Haroon Rasheed



**Annex-III: Appointment of Examiners for PhD Proposal Defense**

CE Department, Islamabad Campus

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Ms. Shahida Khanam 01-281182-001	Reducing collision in RFID tags detection	PhD (CE)	Dr. Shehzad Khalid	Dr. Muhammad Najam-ul-Islam	Dr. Rizwan Ahmed, SEECs-NUST  Dr. Amir Habeeb, Institute of Space Technology



Faculty of Engineering Sciences, Bahria University, Islamabad.

**SE Department, Karachi Campus**

<b>Sr.</b>	<b>Name (Enrolment #)</b>	<b>Thesis Title</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Internal Examiner</b>	<b>External Examiner</b>
1	Engr. Mahawish (02-200181-009)	Self-Healing Light-Weight Intrusion Detection for IoT-based Systems	MS (SE)	Dr. Osama Rehman	Dr. Faisal Bashir (BUIC)	Dr. Rehan Qureshi, SSUET Dr. Kamran Ahsan, FUUAST



**CS Department, Islamabad Campus**

<b>Sr.</b>	<b>Name (Enrolment #)</b>	<b>Thesis Title</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Internal Examiner</b>	<b>External Examiner</b>
1	Hina Gul (01-283182-001)	Significance of Cattaneo-Christov heat flux in Newtonian and non-Newtonian fluid flows	PhD (Mathematics)	Dr. Muhammad Ramzan	Dr. Rizwan ul Haq	Dr. Noreen Sher Akbar Dr. Masood Khan
2	Maryam Khalid Multani (01-284182-001)	A Cluster Based Routing Protocol with optimized cluster formation and balanced energy consumption among cluster	PhD (CS)	Dr. Moneeb Gohar (Dr. Kashif Naseer)	Dr. Junaid Imtiaz	Dr. Muhammad Khalil Afzal Dr. Tariq Umer



**Annex-IV: Re-appointment of Examiners for MS Thesis Defense**

**E&ES Department, Islamabad Campus**

<b>Sr.</b>	<b>Name (Enrolment #)</b>	<b>Thesis Title</b>	<b>Program</b>	<b>Supervisor (Co-Supervisor)</b>	<b>Internal Examiner</b>	<b>External Examiner</b>
1	Saddam Hussain (01-262172-007)	Evaluation of Patala and Chorgali Formation for Unconventional Hydrocarbon Potential in Potwar Sub Basin Pakistan	MS(Geology)	Dr. Muhammad Iqbal Hajana (Dr. Ali Wahid)	Dr. Muhammad Zafar	<u>Mr. Habib Shah</u> <u>Pak. Oil Field</u>
2	Syed M. Osja Mehdi (01-262172-011)	Source Rock evaluation of Datta Formation and oil to source correlation of toot oil field upper Indus Basin.	MS(Geology)	Dr. Muhammad Zafar (Dr. Samina Jahandad)	Saqib Mehmood	<u>Dr. Abbas Ali</u> <u>Naseem, QAU</u>
3	Muhammad Nigar (01-2621181-009)	Reservoir Evaluation of Eocene Sequences in selected wells of Potwar Sub Basin, Pakistan.	MS(Geology)	Dr. Muhammad Zafar	<u>Urooj Shakir</u>	Rana Faisal Shahzad
4	Sheikh Hamza (01-262181-012)	Petrographical and geotechnical analysis of lightweight aggregate of Taunsa Sharif.	MS(Geology)	Dr. Nohseen Sahir (Mr. Nazeer Ahmad)	Maryam Saleem	<u>Mr. Muyyassar</u> <u>Hussain</u>
5	Usama Hamid (01-262171-009)	Geochemical characterization and source Rock evaluation of PatalaShale Kohat Sub Basin, Pakistan	MS(Geology)	Mr. Saqib Mehmood (Dr. Samina Jahandad)	Mr. M. Raiees Amjad	<u>Dr. Berkhaiz Aslam</u> <u>Shami</u>



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

**CS Department, Lahore Campus**

<b>SNo.</b>	<b>Name</b>	<b>Designation</b>	<b>Affiliation</b>	<b>Research Area(s)</b>
1	Dr. Faiza Iqbal	Assistant Professor	University of Lahore, Defense Road Campus, Lahore	Software Engineering, Knowledge Based Communication Systems, Machine Learning
2	Dr. Amna Khan	Assistant Professor	NUCES-FAST (Lahore Campus)	Robotics, Image Processing, Computer Vision, Machine Learning, Artificial Intelligence
3	Dr. Allah Buksh	Assistant Professor	COMSATS Institute of Information Technology, Lahore, Pakistan	Image Processing, Computer Vision, Machine Learning
4	Dr. Hafiz Mahfooz Ul Haque	Assistant Professor	Department of Software Engineering, The University of Lahore, Pakistan	Context-Aware System, Multi-Agent System, Semantic Web, Smart Space Modeling and Reasoning.



Faculty of Engineering Sciences, Bahria University, Islamabad.

### CS Department, Islamabad Campus

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	DR. MERAJ MUSTAFA HASHMI	Associate Professor	School of Natural Sciences (SNS), National University of Sciences and Technology (NUST)	Fluid Mechanics
2.	Dr. Sadia Hina	Associate Professor	Fatima Jinnah Women University	Fluid Mechanics
3.	Dr. ZAHID IQBAL	Associate Professor	HITEC University Taxila	Fluid Mechanics
4.	Dr. Muhammad Khalil Afzal	Assistant Professor	Department of Computer Science Comsats University, Wah Campus	Wireless Sensor Networks



Faculty of Engineering Sciences, Bahria University, Islamabad.

**SE Department, Islamabad Campus**

<b>SNo.</b>	<b>Name</b>	<b>Designation</b>	<b>Affiliation</b>	<b>Research Area(s)</b>
1	Dr Muhammad Daniel Saeed Pirzada Professor	Associate Professor	Management Sciences Department, SZABIST	Energy planning, project management, quality management, and supply chain management.
2	Dr Ismail Ramay* Professor (R)	-	-	Engineering Management





**SE Department, Karachi Campus**

<b>SNo.</b>	<b>Name</b>	<b>Designation</b>	<b>Affiliation</b>	<b>Research Area(s)</b>
1	Dr. Tahir Syed	Associate Professor	FAST-NU	Machine Learning, Deep Learning, Data Science, Computer Vision
2	Dr. Muhammad Khaliq-ur-Rehman Razi Syed	HoD, Computer System Engineering	MAJU	Internet Security, Vehicular Ad-hoc Networks, Ubiquitous Health Care
3	Dr. Syed Muhammad Noman Hasany	Chairman & Associate Professor	SSUET	Natural Language Processing, Semantic Web,
4	Dr. Syed Saood Zia	Associate Professor	SSUET	Big Data Computing, Artificial Intelligence, Knowledge-based Systems



**CS Department, Karachi Campus**

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Ayaz	Assistant Professor	Department of Mathematics, University of Karachi	Algebra, Stochastics modeling, Fractional Derivatives, Artificial Neural Networks
2	Dr. Faqiha Sultan	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Numerical Analysis, Fluid Mechanics, Numerical Computing, Differential Equation
3	Dr. Fatima Riaz	Assistant Professor	Institute of Business Management (IoBM) Karachi	Fluid Dynamics, Numerical Analysis, Fractional Differential Equation
4	Dr. Muhammad Malook Rind	Professor	Department of Computer Science, Sindh Madressatul Islam university (SMIU)	Data Networks, Cloud Computing, Pervasive Computing, IoT, Software Defined Network
5	Dr. Aftab	Professor	Department of Software Engineering, Sindh Madressatul Islam university (SMIU)	Artificial Intelligence, Automata, Machine Learning
6	Dr Yousuf Tufail	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling
7	Dr Muhammad Jamil	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Fluid Mechanics with distinction
8	Dr Kamran Zakaria	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling
9	Dr Fahim Raees	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling
10	Dr Mushtaq Hussain	Assistant Professor	Department of Mathematics, NED University of Engineering & Technology, Karachi	Applied Mathematics, Statistical modelling



**EE Department, Islamabad Campus**

SNo.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Mian Ashfaq Ali	Assistant Prof.	NUST	System Modelling, Vehicle Dynamics and Control, Microcontroller based Sensor Fusions and Actuator control, System Integration. Test Benches and Inspection Machines
2	Dr. Ali Ahmed	Assistant Prof.	Usman Institute of Technology, Karachi	Real time embedded systems, IoT and CoTs hardware and software
3	DR. KHURRAM JAVED	Assistant Prof.	IST, Islamabad	Microelectronics, CMOS tech, and MEMS
4	Dr. QASIM ALI	Assistant Prof.	CUI Abbottabad	ANSYS Maxwell (machine design simulation tool), AutoCAD.
5	Dr. Shahid Atiq	Associate Prof.	Khawaja Fareed University of Engineering & Information Technology, Rahim Yar Khan	Electrical Machines and drives
6	Dr. ABID IMRAN	Assistant Prof.	GIKI	Design, modeling and applications of serial, parallel, and hybrid manipulators, impulse-modeling, motion optimization and applications of bio-inspired robotic manipulators.
7	Dr. Abdul Qayyum Khan	Professor	PIEAS	Fault Diagnosis and Process Monitoring, Linear/Nonlinear Observer Design, Robust and Optimal Control design, Sampled Data Control and Discrete-Time Systems, Nonlinear Systems, Time-delay Systems, Hybrid Systems, Power systems, and Industrial Plants
8	Dr. Ing. Mukhtar Ullah	Professor	FAST NUCES Islamabad	Systems Engineering, Statistical Modeling, Computational Biology, Empirical Modeling from Data, Process Control, Machine Learning, Interdisciplinary Research
9	Dr. Muhammad Awais	Assistant Prof.	CUI Wah Campus	VLSI, FPGA
10	Dr. Syed Rameez Naqvi	Assistant Prof.	CUI Wah Campus	VLSI, FPGA, Computer Architecture, Network on Chip
11	Dr. Osman Hasan	Associate Prof.	SEECs NUST	ASIC Design, SOC etc.
12.	Dr. Muhammad Aamir	Assistant Prof.	PAF-IASST	Power Electronics, Smart grids, Power Systems Control



**Annex-VI: Inclusion of Experts in the List of Foreign Evaluators**

EE Department, Karachi Campus

<sup>A</sup> SNo.	Name	Designation	Affiliation	Post PhD Experience	Research Area(s)
1	Prof. Hossam Gaber	Professor	Faculty of Energy Systems and Nuclear Science, University of Oshawa Ontario, Canada	18 years	Smart Grid, Renewable Energy, Micro Energy Grids Planning and Control, Safety and Control Systems for Nuclear Power Plants and Protection
2	Prof. Jeff Will	Professor	Electrical and Computer Engineering, Valparaiso University, USA	18 years	Image Processing, software design, Sensor fusion, Virtual reality
3	Dr. Shuzheng XU	Associate Professor	Department of Electronic Engineering, Tsinghua University, China	13 years	Digital Radio of AM/FM, Watermarking, Electronics Circuits Experiment, Ubiquitous Network



**Annex-VII: Appointment of Examiners for PhD Internal Defense**

SNo.	Name	Dept.	Program	Supervisor	Theis Title	Examiners
1.	Ghulam Ali Mirza (01-284151-002)	CS, BUIC	PhD (CS)	Dr. Imran Siddiqi	Detection and Recognition of Artificial Urdu Text in Videos	Dr. Samabia Tehsin Dr. Sohaib Ahmed (BUKC) Dr. Iram Noreen (BULC)
2.	Shahid Ismail Malik (01-281141-002)	EE, BUIC	PhD (EE)	Dr. Imran Siddiqi	Classification & Localization of Heart Beats using PCG and PPG signals	Dr. Saleem Aslam Dr. Amina Jameel Dr. Imran Farid Nizami
3.	Mr. Taimoor Zafar (01-281142-002)	EE, BUKC	PhD (EE)	Dr. Anzar Alam (Dr. Tariq Mairaj)	Prognostic Algorithm for Condition Monitoring and Estimation of Remaining Useful life of Critical Electric Infrastructure	Dr. Mukesh Kumar Maheshwari Dr. Saleem Aslam (BUIC) Dr. Amina Jameel (BUIC)
4.	Mr. Muhammad Hussain (02-281151-001)	EE, BUKC	PhD (EE)	Dr. Haroon Rasheed	Resources Allocation and Optimization of Multiuser Communication for Next Generation Network	Dr. Syed Safdar Ali Dr. Junaid Imtiaz (BUIC) Dr. Muneeb Gohar (BUIC)



**Annex-VIII: Recommendation of Foreign Evaluators for PhD Candidate**

SNo.	Name	Dept.	Program	Supervisor	Theis Title	Recommended Foreign Evaluators <sup>1</sup>
1.	Ms. Hina Shakir (02-281141-001)	EE, BUKC	PhD (EE)	Dr. Haroon Rasheed (Dr. Tariq Mairaj)	3D Image Analysis Techniques for Lung Cancer Detection on Computed Tomography (CT) Scans	Dr. Imran Khan Niazi Dr. Jeff Will Dr. Guoying Zhao Dr. Valentina Emilia Balas

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<sup>1</sup> Subject to approval of extension as recoded in decision on Agenda Item 11.12



**Annex-IX: Change in Title of Research – PhD Candidates EE, BUIC**

S. No	Name Enrolment No.	Previous Thesis Title	Revised Thesis Title
1.	Muhammad Waqas 01-281181-001	Superlative resource provisioning of D2D assisted networks	Energy and Spectral Efficient Resource Allocation for Heterogeneous Networks
2.	M. Hasan Danish Khan 01-281172-001	A Lightweight Privacy and Security Framework for Blockchain Based Decentralized Energy Trading	Blockchain Enabled Secure Transaction System for Decentralized Energy Trading in Microgrids



**Annex-X: Extension in Time Bar of PhD Scholars**

SNo.	Name	Dept.	Program	Supervisor	Remarks
1	Momina Moetesum (01-284142-001)	CS, BUIC	PhD (CS)	Dr. Imran Siddiqi	One year extension granted by the FRC
2	Yousaf Zia (01-284132-003)	CS, BUIC	PhD (CS)	Dr. Faisal Bashir	One year extension recommended by the FRC for approval from the competent authority
3	Ms. Hina Shakir (02-281141-001)	EE, BUKC	PhD (EE)	Dr. Haroon Rasheed (Dr. Tariq Mairaj)	The candidate transferred her credits and the total duration of enrolment in PhD program is beyond 6 years. FRC is not authorized to grant extension in such cases, the case is to be processed on file for approval from the competent authority.
4	Mr. Taimoor Zafar (01-281142-002)	EE, BUKC	PhD (EE)	Dr. Anzar Alam (Dr. Tariq Mairaj)	One year extension granted by the FRC
5	Adeel M Syed (01-281132-001)	SE, BUIC	PhD (SE)	Dr Shahzad Khalid (Dr Usman Akram)	One year extension recommended by the FRC for approval from the competent authority
6	Ikram ul Haq (01-281142-002)	SE, BUIC	PhD (SE)	Dr Tamim A. Khan	One year extension granted by the FRC
7	Samina Rafique (01-281142-001)	EE, BUIC	PhD (EE)	Dr. Muhammad Najam-ul-Islam	One year extension granted by the FRC
8	Muhammad Irfan (02-282142 -003)	E&ES, BUKC	PhD (ES)	Dr. Nergis Yasmin	One year extension granted by the FRC
9	Farooq Ali (02-282142-001)	E&ES, BUKC	PhD (ES)	Dr. Nergis Yasmin	One year extension granted by the FRC
10	Muhammad Idress (02-282142-002)	E&ES, BUKC	PhD (ES)	Dr. Nergis Yasmin	One year extension granted by the FRC





**Annex-XI: Ratification of External Examiner for MS Thesis Defense**

Sr.	Name (Enrolment #)	Thesis Title	Dept.	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1.	SYED ADNAN BUKHARI (01-243181-020)	Automatic Object Detection in Remote Sense Imagery	CS, BUIC	MS (CS)	Dr. Sumaira Kausar	Dr. Imran Fareed Nizami	<u>Dr. Naveed Ejaz</u>
2.	UMAIR SHAHID (01-243172-033)	Identification of personality traits using computerized analysis of handwriting	CS, BUIC	MS (CS)	Dr. Imran Siddiqi	Dr. Amina Jamil	<u>Dr. Naveed Ejaz</u>
3.	FAISAL SHOAIB (01-243181-027)	Minimize the SDN Switch-Controller Communication Delays	CS, BUIC	MS (CS)	Dr. Saleem Iqbal	Dr. Moneeb Gohar	<u>Dr. Majid Iqbal</u>
4.	MUHAMMAD AWAIS (01-243181-008)	Multiple Artefact Detection in Endoscopic Images	CS, BUIC	MS (CS)	Dr. Sumaira Kausar	Dr. Imran Fareed Nizami	<u>Dr. Rashid Ahmed</u>
5.	SIKANDAR HAYYAT SHEIKH (01-243181-019)	A Game Theoretic Approach to Blockchain Identity Preservation	CS, BUIC	MS (CS)	Dr. Muhammad Muzammal	Dr. Arif ur Rahman	<u>Dr. Rashid Ahmed</u>



**Annex-XII: Appointment of Co-Supervisor for PhD Student**

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor	Co-Supervisor
1	Mr. Farrukh Shahzad (01-281162-001)	Application of Business-Centric Regression Testing for Business Software Application	PhD (SE), BUIC	Dr. Shahid Nazir Bhatti	Dr. Awais Majeed



**Annex-XIII: Appointment of PhD Advisory Committees**

Sr.	Name	Department	Program	Advisory Committee
1	Engr. Mahawish (02-200182-006)	SE, BUKC	PhD (SE)	1. Dr Osama Rehman 2. Dr Sohaib Ahmed 3. Dr Arshad Aziz
2	IKRAM UL HAQ (01-281142-002)	SE, BUIC	PhD (SE)	1. Dr Tamim A Khan 2. Dr Awais Majeed 3. Dr Kashif Sultan
3	ZULFIQAR ALI (01-281151-001)	SE, BUIC	PhD (SE)	1. Dr Shagufta Henna 2. Dr Faisal Bashir 3. Dr Kashif Sultan
4	HASSAN BIN NASEER (01-281152-003)	SE, BUIC	PhD (SE)	1. Dr Awais Majeed 2. Dr Tamim A Khan 3. Dr. Usman Qamar
5	KHURRUM MUSTAFA ABBASI (01-281152-002)	SE, BUIC	PhD (SE)	1. Dr Tamim A Khan 2. Dr Irfan ul Haq 3. Dr Awais Majeed 4. Ari fur Reham
6	SYED RASHID AZIZ (01-281152-004)	SE, BUIC	PhD (SE)	1. Dr Tamim A Khan 2. Dr Kashif Sultan 3. Dr. Sohail Asghar
7	SADIA ASHRAF (01-281152-005)	SE, BUIC	PhD (SE)	1. Dr Tamim A Khan 2. Dr Awais Majeed 3. Dr. Kashif Sultan
8	FARRUKH SHAHZAD (01-281162-001)	SE, BUIC	PhD (SE)	1. Dr Shahid Nazir Bhatti 2. Dr Awais Majeed 3. Dr. Tamim A Khan 4. Dr Kashif Sultan



**Annex-XIV: Recommendation of Examiners for Final PhD Defense**

SNo.	Name	Dept.	Program	Supervisor	Theis Title	Recommended Examiners
1.	ALI MUSTAFA (01-281131-002)	EE, BUIC	PhD (EE)	Dr. Muhammad Najam ul Islam (Dr. Salman Ahmed)	Cooperative Control of Networked Multi Agent Systems	<b>Internal Examiners:</b> <ul style="list-style-type: none"><li>• Dr. Haroon Rasheed, Professor (EE) BUKC</li><li>• Dr. Mukesh Kumar Maheshwari, Senior AP (EE) BUKC</li></ul> <b>External Examiners:</b> <ul style="list-style-type: none"><li>• Dr. Abdul Qayyum Khan, Professor PIEAS</li><li>• Dr. Mukhtar Ulla, Professor, NU-FAST</li><li>• Dr. Rizwan Ahmed, AP, NUST</li></ul>
2.	Adeel M. Syed (01-281132-001)	SE, BUIC	PhD (SE)	Dr. Shehzad Khalid (Dr. Usman Akram)	Detection of Macular Edema using Fundus and OCT Images	<b>Internal Examiners:</b> <ul style="list-style-type: none"><li>• Dr. Raheel Siddiqi, BUKC</li><li>• Dr. Muhammad Aasim Qureshi, BULC</li></ul> <b>External Examiners:</b> <ul style="list-style-type: none"><li>• Dr. Khurram Khurshid, Professor IST</li><li>• Dr. Asif Ullah Khan, Professor, PIEAS</li><li>• Dr. Syed Aun Irteza, Assoc. Prof. UET Taxila</li><li>• Dr. Ayyaz Hussain, Assoc. Prof. QAU</li></ul>



**Annex XV: Ratification of Appointment of Examiners for MS Thesis Defense**

**SE Dept. BUIC**

Sr.	Name (Enrolment #)	Thesis Title	Program	Supervisor (Co-Supervisor)	Internal Examiner	External Examiner
1	Mahena Farooq (01-241181-011)	Expanding the Applicability of Sentiment Analysis for Pakistani Products	MS (SE)	Dr. Muhammad Muzammil	Dr. Kashif Sultan	Dr. Usman Qamar
2	Javeria Noor (01-241172-050)	Driver's Churn Prediction and Prevention in Ride-hailing Industry Using Predictive Modelling Techniques.	MS (SE)	Ms. Joddatt Fatima	Dr. Kashif Sultan	Dr. Usman Qamar
3	Hira Maryam (01-241172-002)	Automated Rule forming at controller in Software Defined Network	MS (SE)	Dr. Saleem Iqbal/Dr. Muneeb Gohar	Dr. Awais Majeed	Dr. Irfan ul Haq