



Meeting Minutes

5th FRC, Faculty of Engineering Sciences

February 19, 2018

1. The 5th meeting of the Faculty Research Committee of the Faculty of Engineering Sciences (FRC-ES) was held on February 19, 2018 in the Video Conference Room, Quaid Block at 1330 hours.

Attendees

2. The meeting was attended by the following:

i.	Dr. M. Najam-ul-Islam	Dean FES, Chair (FRC-ES)
ii.	Dr. Shehzad Khalid	Professor, Director ORIC
iii.	Dr. Riaz Ahmed	ASP, Director PGP
iv.	Dr. Amina Jameel	HoD CE Dept., IC
v.	Dr. Faisal Bashir	HoD CS Dept., IC
vi.	Dr. Humera Farooq	HoD CS Dept., KC
vii.	Mr. Farhan Sheerazi	HoD, CS Dept., LC
viii.	Dr. Moazzam Niazi	(Acting) HoD SE Dept., KC
ix.	Dr. Atif Raza Jafri	HoD, EE Dept., IC
x.	Dr. Haroon Rasheed	HoD EE Dept., KC
xi.	Dr. Tehseen Ullah Khan	HoD EES Dept., IC
xii.	Dr. Awais Majeed	HoD SE Dept., IC
xiii.	Dr. Muhammad Ramzan	Professor, CS Dept, IC
xiv.	Dr. Anzar Alam	ASP, EE Dept., KC
xv.	Dr. Imran Siddiqi	ASP 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.

Old Agenda Items

6. There were no old agenda items.

Fresh Agenda Items

Item 5.1 Extension in Time Duration of PhD Candidate - EE Department, IC

Discussion

7. HoD EE, IC, presented the case of PhD student Mr. Ali Mustafa, Enrolment No: 01-281131-002 who requested an extension of one year. The candidate is working under the supervision of Dr. M. Najam ul Islam and has completed five years of his degree program. HoD EE, IC, referred to the Rule 11.2 of PGREGS which specifies the maximum duration of PhD programs to be five years.
8. HoD SE, IC, Dr. Awais Majeed pointed out that the PhD rules have been revised and referred to Rule 15.3 of the latest rules which specifies the maximum duration of PhD programs to be six years. Dr. Majeed also referred to the decision of the 30th Academic Council Meeting (Agenda Item 2901) which specifies that the rules related to maximum time duration can be applied to students of all previous batches as well.

Decision

9. The agenda item was dropped as the candidate was within the maximum duration of the PhD program.

Action by: NIL

Item 5.2 Appointment of Examiners: MS Thesis Defence - EE Department, IC

Discussion

10. HoD EE, IC presented the case of the following student of MS (EE) program who has submitted his final thesis and is ready for the defence.



SNo.	Student	Supervisor	Title
1	Zeeshan Khurshid 01-244152-037	Dr. Asad Waqar	Modeling and Simulation of Phasor Measurement Unit (PMU) for Early Fault Detection in Interconnected Two-Area Network.

Decision

11. Taking into consideration the recommendations of DRC, FRC appointed the following examiners for the candidate.

SNo.	Name (Enrollment #)	Thesis Title	Internal Examiner	External Examiner
1	Zeeshan Khurshid 01-244152-037	Modeling and Simulation of Phasor Measurement Unit (PMU) for Early Fault Detection in Interconnected Two-Area Network.	Dr. M. Aamir	Dr. Syed Haider Abbas

Action by: HoD EE, IC

Item 5.3 Change of Supervisor/Co-Supervisor: PhD Candidate - EE Department, IC

Discussion

12. HoD EE, IC presented the case of the PhD candidate Ms. Maryam Iqbal (Enrolment#01-281171-003) who is working under the principal supervision of Dr. Syed Asim Ali Shah while her co-supervisor is Dr. Asif Mahmood Mughal. Dr. Mughal has joined Bahria University as adjunct faculty and can now supervise PhD scholars as principal supervisor. Since the research theme of the candidate matches with the expertise of Dr. Mughal, HoD EE, IC, requested to swap the roles of supervisor and co-supervisor after consent from all stakeholders.

Decision

13. FRC approved the appointment of Dr. Asif Mahmood Mughal as principal and Dr. Syed Asim Ali Shah as co-supervisor of Ms. Maryam Iqbal. HoD EE, IC to provide the respective consent letters for record and notify the appointments.

Action by: HoD EE, IC



Item 5.4 Appointment of Co-Supervisor: PhD Candidate - EE Department, IC

Discussion

14. HoD EE, IC presented the case of PhD candidate Ms. Madiha Khalid (Enrolment# 01-281162-002) who is working on security models for structural cryptanalysis under the supervision of Dr. Muhammad Najam ul Islam. The candidate is seeking technical guidance from Dr. Umar Mujahid who is presently on study leave from Bahria University. The student has requested to appoint Dr. Umar Mujahid as her co-supervisor.

Decision

15. FRC approved the appointment of Dr. Umar Mujahid as co-supervisor of Ms. Madiha Khalid. HoD EE, IC, to submit the letter of consent from Dr. Umar Mujahid and notify the appointment.

Action by: HoD EE, IC

Item 5.5 Appointment of Supervisors/Advisory Committee: PhD Candidate - CS Department, KC

Discussion

16. HoD CS, KC presented the case of PhD candidate Mr. Zia ul Islam (enrolled in the Spring 2018 intake) for the appointment of supervisor, co-supervisor and advisory committee. The candidate intends to work on Machine Learning and Relational Databases.

Decision

17. FRC approved the following appointments for the PhD candidate. The appointments are to be notified by HOD CS, KC.

SNo.	Student Name	Supervisor	Co-Supervisor	Advisory Committee
1	Zia ul Islam	Dr. Raheel Siddiqi	Dr. Humera Farooq	1. Dr. Raheel Siddiqi 2. Dr. Humera Tariq 3. Dr. Hameed Ullah Kazi

Action by: HoD CS, KC



Item 5.6 Appointment of Examiners for PhD Comprehensive Exam - CS Department, KC

Discussion

18. HoD CS, KC presented the case of the following PhD candidates who have completed their course work and have to appear for the PhD comprehensive examination.
- Naureen Farhan (Fall 2016 Intake)
 - Faisal Ikram (Spring 2017 Intake)
 - Adnan Ur Rehman (Spring 2017 Intake)

Decision

19. The following courses and examiners were approved for the listed PhD candidates.

SNo.	Student Name	Subjects & Examiners
1	Naureen Farhan	<ol style="list-style-type: none">Advanced Wireless Communication Systems (Dr. Haroon Rasheed)Advanced System Modeling & Simulation (Dr. Ghulam Muhammad)Network Performance Evaluation (Dr. Syed Safdar Ali)Machine Learning (Dr. Humera Farooq)
2	Faisal Ikram	<ol style="list-style-type: none">Advanced Data Mining (Dr. Raja Suleman - BUIC)Computer Vision (Dr. Muhammad Anzar Alam)Machine Learning (Dr. Humera Farooq)Pattern Recognition (Dr. Imran Siddiqi - BUIC)
3	Adnan Ur Rehman	<ol style="list-style-type: none">Advanced Data Mining (Dr. Raja Suleman - BUIC)Computer Vision (Dr. Muhammad Anzar Alam)Machine Learning (Dr. Humera Farooq)Pattern Recognition (Dr. Imran Siddiqi - BUIC)

Action by: HoD CS, KC

Item 5.7 Inclusion of Experts in the list of Local External Examiners –CS Department, IC

Discussion

20. HoD CS, KC, presented the CVs of local experts for inclusion in the pool of local external examiners to evaluate MS/PhD theses.

Decision

21. The following list of examiners was approved for inclusion in the pool of local external examiners.



No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Najeed Ahmed Khan	Associate Professor	NED University of Engineering & Technology, Karachi	Artificial Intelligence & Computer Vision
2.	Dr. Humera Tariq	Assistant Professor	Karachi University	Biomedical Imaging & Applications
3.	Dr. Noman Islam	Associate Professor	Iqra University	Cloud Computing, Machine Learning, Deep Learning
4.	Dr. Aqeel ur Rehman	Assistant Professor	Hamdard University	ICT, Ontology Engineering, Recommendation Systems

Action by: HoD CS, KC

Item 5.8 Appointment of Examiners MS Theses Defence - CS Department, IC

Discussion

22. HoD CS, IC, presented the case of the following MS students who have submitted their theses for the final defence.

No.	Name	Supervisor	Co-Supervisor	Thesis Title
1.	Muhammad Sohail (01-243161-012)	Dr. Moneeb Gohar	Talha Naqash	Data Encryption Scheme based on Complex Dynamic Networks
2.	Muhammad Sikandar Zamir (01-243152-007)	Dr. Samabia Tehsin	-	Myeloma cell detection in bone marrow aspiration using Microscopic images
3.	Imran (01-243161-009)	Dr. Muhammad Muzammil	-	House Price Prediction using Deep Learning
4.	Muhammad Waqar (01-243161-015)	Dr. Muhammad Muzammil	-	Prioritising Test suite using machine Learning

Decision

23. FRC approved the following internal and external examiners for the aforementioned students.

No.	Name	Thesis Title	Internal Examiner	External Examiner
1.	Muhammad Sohail (01-243161-012)	Data Encryption Scheme based on Complex Dynamic Networks	Dr. Muhammad Najam ul Islam	Dr. Abid Khan
2.	Muhammad Sikandar Zamir	Myeloma cell detection in bone marrow aspiration using	Dr. Imran Siddiqi	Dr. Farhan Riaz



	(01-243152-007)	Microscopic images		
3.	Imran (01-243161-009)	House Price Prediction using Deep Learning	Dr. Awais Ahmad	Dr. Waseem Shehzad
4.	Muhammad Waqar (01-243161-015)	Prioritising Test suite using machine Learning	Dr. Samabia Tehseen	Dr. Abdul Basit

Action by: HoD CS, IC

Item 5.9 Appointment of Supervisors/Advisory Committees for PhD candidates - CS Department, IC

Discussion

24. HoD CS, IC, presented the case of the PhD candidates (Spring 2018 Intake) for appointment of supervisors and advisory committees.

Decision

25. FRC approved the following supervisors and advisory committees for the PhD candidates of the Spring 2018 intake.

No.	Name	Program	Research Area	Supervisor/Co-Supervisor	Advisory Committee
1.	SHAHELA SAIF (01-284181-002)	PhD (CS)	Visual Data Analysis	Dr. Samabia Tehsin	1. Dr. Samabia Tehsin 2. Dr. Sumaira Kausar 3. Dr. Imran Siddiqi
2.	ROMANA TALAT (01-284181-001)	PhD (CS)	Data Mining	Dr. Sumaira Kausar / Dr. Muhammad Muzammal	1. Dr. M. Muzammal 2. Dr. Muneeb Gohar 3. Dr. Imran Siddiqi
3.	MEER MUHAMMAD KHAN JALBANI (01-284181-003)	PhD (CS)	Networking	Dr. Moneeb Gohar	1. Dr. Moneeb Gohar 2. Dr. Shagufta Henna 3. Dr. Faisal Bashir
4.	SYED SAQIB SHAH (01-283181-003)	PhD (Maths)	Fluid Dynamics	Dr. Rizwan ul Haq	1. Dr. Rizwan ul Haq 2. Dr. Jafar Hasnain 3. Dr. Muhammad Ramzan
5.	SAIMA RIASAT (01-283181-002)	PhD (Maths)	Fluid Mechanics	Dr. Muhammad Ramzan	1. Dr. Muhammad Ramzan 2. Dr. Jafar Hasnain 3. Dr. Ubaid Ahmed



					Nisar
6.	NAILA SHAHEEN (01-283181-001)	PhD (Maths)	Fluid Mechanics	Dr. Muhammad Ramzan	1. Dr. Muhammad Ramzan 2. Dr. Ubaid Ahmed Nisar 3. Dr. Rizwan ul Haq

Item 5.10 Appointment of Examiners for PhD Comprehensive Exam - CS Department, IC

Discussion

26. HoD CS, IC presented the case of PhD candidate Mr. Immad Ahmed (Enrolment#01-284162-002) who has completed his course work and needs to appear for the PhD comprehensive exam.
27. The student has taken the following technical courses during his course work.
- Machine Learning
 - Advanced Natural Language Processing
 - Information Retrieval Techniques
 - Ontology Engineering
 - Advanced Data Mining

Decision

28. The following courses and examiners were approved by FRC for the PhD comprehensive exam of Mr. Immad Ahmad.
- Machine Learning – Dr. Muhammad Muzammal
 - Advanced Natural Language Processing – Dr. Raja Suleman
 - Information Retrieval Techniques – Dr. Arif ur Rehman
 - Ontology Engineering – Dr. Asfand-e-Yar

Action by: HoD CS, IC

Item 5.11 Extension in Time Duration of PhD Candidate - CS Department, IC

Discussion

29. HoD CS, IC, presented the case of PhD student Mr. Bilal Haider, Enrolment No: 01-281131-005 who requested an extension of one year. The candidate is working under the supervision of Dr. Shagufta Henna and has completed five years of his degree program.



Decision

30. It was observed that this agenda item was very similar to Agenda Item 5.1. In accordance with the decision of the 30th ACM, the student does not need to apply for the extension yet. Consequently, the agenda item was dropped.

Action by: NIL

Item 5.12 Change of Examiner – PhD Proposal Defence - CS Department, IC

Discussion

31. HoD CS, IC, presented the case of PhD candidate Ms. Safia Shabir who submitted her research proposal for evaluation in November 2017. The following panel was appointed in the 4th meeting of the FRC to conduct the defence.
- a. Dr. Amina Jameel (Internal)
 - b. Dr. Faisal Shafait (External)
 - c. Dr. Sibte ul Hussain (External)
32. The department is unable to conduct the defence due to the unavailability of one of the external examiners (Dr. Sibte ul Hussain). HoD CS, IC, requested the FRC to appoint a new external examiner for Ms. Safia Shabbir to replace Dr. Sibte ul Hussain.

Decision

33. As a function of the research theme of the candidate, FRC approved Dr. Khurram Khurshid (Institute of Space Technology, Islamabad) to replace Dr. Sibte ul Hussain as external examiner.

Action by: HoD CS, IC

Item 5.13 Comprehensive Exam of PhD Candidate - CE Department, IC

Discussion

34. HoD CE, IC, presented the case of PhD student Mr. Shehzad Ahmed, Enrolment No: 01-281162-003 who has completed his course work and has to appear for the PhD comprehensive exam.
35. The student has studied the following technical courses during his course work.
- a. Advanced Digital Communication Systems
 - b. Advanced Digital Signal Processing
 - c. Communication Network Architectures and Protocol
 - d. Embedded System Design for Telecommunication



- e. Advanced Engineering Mathematics

Decision

36. The following courses and examiners were approved for the PhD comprehensive exam of Mr. Shehzad Ahmed.
- a. Advanced Digital Communication Systems (Dr. Imtiaz Alam)
 - b. Advanced Digital Signal Processing (Dr. Saleem Aslam)
 - c. Communication Network Architectures and Protocol (Dr. Shahzad Hassan)
 - d. Embedded System Design for Telecommunication (Dr. Atif Jafri)

Action by: HoD CE, IC

Item 5.14 Appointment of Supervisors & Advisory Committees for PhD (CE) Candidates - CE Department, IC

Discussion

37. HoD CE, IC, presented the case of two PhD (CE) students (Spring 2018 intake) for the appointment of supervisors and advisory committees. The students included:
- a. Ms. Maria Ahmad (Enrolment No: 01-281181-003); Research Area: On lifetime Enhancement of Heterogeneous Wireless Sensor Networks
 - b. Mr. Muhammad Adnan Nasim (Enrolment No: 01-281181-002); Research Area: Coexistence analysis of LPWAN technologies for Internet of Things

Decision

38. In accordance with the recommendations of the DRC, the following supervisors and advisory committees were approved by FRC for the two candidates.

No.	Student Name	Supervisor	Advisory Committee
1	Ms. Maria Ahmad (01-281181-003)	Dr. Imtiaz Alam Co-Supervisor: Dr. Shehzad Hassan	1. Dr. Imtiaz Alam 2. Dr. Shahzad Hassan 3. Dr. Faisal Bashir
2	Mr. Muhammad Adnan Nasim (01-281181-002)	Dr. Saleem Aslam	1. Dr. Saleem Aslam 2. Dr. Khalid Javed 3. Dr. Amina Jameel



39. HoD CE, IC, is to notify the appointment of the supervisors & advisory committees on the respective PhD Forms.

Action by: HoD CE, IC

Item 5.15 Internal Defence PhD Candidate – CE Department, IC

Discussion

40. PhD (CE) candidate, Mr. Israr-ud-din, Enrolment# 01-281121-005, has submitted his PhD thesis to the department for internal evaluation. The title of his research is “Optical Character Recognition for Printed Urdu Nastaliq Font”. HoD (CE), IC, requested the FRC to approve the internal examiners for the candidate.

Decision

41. FRC approved the following examination committee for the internal defence and thesis review of Mr. Israr-ud-Din.

S No.	Name	Affiliation
1.	Dr. Muhammad Najam ul Islam (Prof.)	Dean, Faculty of ES
2.	Dr. Amina Jameel (Assoc. Prof.)	Dept. of CE, BUIC
3.	Dr. Humeira Farooq (Assoc. Prof.)	Dept. of CS, BUKC
4.	Dr. Sumaira Kausar (Asst. Prof.)	Dept. of CS, BUIC
5.	Dr. Asim Qureshi (Assoc. Prof.)	Dept. of CS, BULC

Action by: HoD CE, IC

Item 5.16 Foreign Evaluators for PhD Candidate – CE Department, IC

Discussion

42. HoD CE, IC presented the case for the selection of the foreign evaluators for PhD candidate Israr-ud-Din (Enrolment# 01-281121-005). The candidate has been granted extension (by the Competent Authority) until June 2018 to complete his degree. The case was presented to provide conditional approval of foreign evaluators so that subsequent processing can be carried out in time (in case of successful internal defence).

Decision

43. As a function of research theme of the candidate, the following foreign evaluators were selected. Serial 1 to 3 were recommended in the 4th meeting of the FRC and will be considered subject to their approval in the 23rd HERC meeting.



SNO.	Name	Designation	Affiliation	Country	Specialization
1.	Dr. Nicole Vincent	Professor	LIPADE Research Lab, Paris Descartes University.	France	Image Analysis and Pattern Recognition with applications to document and handwriting recognition
2.	Dr. Ergina Kavallieratou	Asst. Prof.	University of the Aegean	Greece	Document Image Processing OCRs, Pattern Recognition
3.	Dr. Guray Erus	Sr. Research Investigator	University of Pennsylvania	USA	Image Processing, Machine Learning, Statistical Learning, Clinical Applications
4.	Dr. Arish Asif Qazi	Head, Software Research & Development	ClaroNav Inc.	Canada	Image analysis, Image Processing, Medical applications, Pattern recognition

Action by: HoD CE, IC

Item 5.17 Appointment of Examiners for MS thesis defence –EES Department, IC

Discussion

44. HoD EES, IC, presented the case of MS students for approval of examiners for the final defence.

Decision

45. The following examiners were approved by the FRC for the final thesis defence of the listed students.

No	Name/ Enrolment No.	Program	Thesis Title	Internal Examiner	External Examiner
1.	Muhamad Adnan Khan (01-262152-024)	MS Geophysics	Reservoir characterization and Seismic inversion of Miano area, Central Indus Basin, Pakistan	Dr. Abid Ali	Muyyassar Hussain
2.	Adeel Ahsan 01-262162-002	MS Geophysics	Pore pressure prediction of Sui Main Limestone southern Indus Basin, Pakistan	Ms. Urooj Shakir	Matloob Hussain



3.	Anam Sher Janjua 01-262162-004	MS Geophysics	Reservoir Characterization of Lower Goru Sands at Miano area using rock Physics modelling, Central Indus Basin, Pakistan	M. Raiees Amjad	Muhammad Kamal
4.	Kamran Bin Zafar 01-262162-005	MS Geophysics	Quantitative seismic interpretation in Kadinwari-Latif Area, Central Indus Basin, Pakistan	Dr. Muhsan Ehsan	Syed Maqsood Ali Gilani
5.	Mahmood Sultan 01-262162-006	MS Geophysics	Integrated Geophysical studies of Badin Block Pakistan, Including TOC of Sembar Shale and block subsidence calculation.	M. Raiees Amjad	Dr. Lamuail Bashir
6.	Majid Ali 01-262162-007	MS Geophysics	Sequence Stratigraphic Framework of cretaceous sands in Sanghar area, Lower Indus Basin, Pakistan	M. Fahad Mehmood	Dr. Aamir Ali
7.	Muhammad Arslan Shakeel Toor 01-262162-008	MS Geophysics	Seismic structural interpretation and reservoir estimation of Sawan gas field, lower Indus basin Pakistan	Mr. Tausif Ahmad	Irfan Muhammad
8.	Muhammad Fahad Bashir 01-262162-009	MS Geophysics	Reservoir Characterization of Hydrocarbon Reservoir using seismic and well Data of Pirkoh area, Central Indus Basin, Pakistan	M. Fahad Mehmood	Muhammad Kashif
9.	Muhammad Haris Siddiqui 01-262162-010	MS Geophysics	Sequence Stratigraphic Interpretation of Lower Goru Formation using geophysical data of Sanghar area, Lower Indus Basin, Pakistan	Dr. Muhsan Ehsan	Rana Faisal Shahzad
10.	Muhammad Nasar Iqbal 01-262162-012	MS Geophysics	2D Structural Interpretation and Seismic attribute analysis of Sawanarea, Lower Indus Basin, Pakistan	Dr. Abid Ali	Aamir Malik
11.	Muhammad Wahaj Ahmad 01-262162-013	MS Geophysics	Sequence stratigraphic framework and Reservoir Characterization of Gambat area, Lower Indus Basin Pakistan	Ms. Urooj Shakir	Dr. Lamuail Bashir



12.	Zahid Gulfraz 01-262162-015	MS Geophysics	Prospect Generation study of Sara and suri block using seismic and well log data, Ghotki area, Middle Indus Basin, Pakistan	M. Fahad Mehmood	Dr. Shazia Asim
13.	Asma Javed 01-262162-034	MS Geophysics	Evaluation of Hydrocarbon Potential of Zamzama Gas Field, lower Indus basin, Pakistan, using 2D interpretation and attribute analysis	Mr. Adil Naseer	Dr. Birkez Aslam Shami
14.	Sanwal Naseer 01-262162-035	MS Geophysics	Structural Modelling and facies analysis using seismic attributes and spectral decomposition of sanghar area, Lower Indus Basin Pakistan	Mr. Tausif Ahmad	Shehzada Ammar Yasir
15.	Rabeea Yaqoob 01-262162-042	MS Geophysics	Structural and Stratigraphic Modeling by Seismic Attribute along with Facies Modeling of Fort Abbas Area, central Indus basin, Pakistan	Mr. Adil Naseer	Muyyassar Hussain
16.	Akhtar Masood 01-262162-016	MS Geology	Structural Analysis of Khairi Murat Fault, Potwar Plateau, Fateh Jang, District Attock, Pakistan	Mr. Mumtaz Ali Khan	Mohsin Munir
17.	Benish Ali 01-262162-017	MS Geology	Classification of Planktonic and Larger Benthic Foraminifers and Biozonation of Kohat Formation, Southern Kohat Plateau, District Karak, Khyber Pakhtunkhwa, Pakistan	Prof. Dr. Tahseenullah Khan	Abdus Saboor
18.	Hafiz M. Danial Amin 01-262162-018	MS Geology	Petrology of Roks In the Singal Gah, District Ghizer, Gilgit-Baltistan, Pakistan	Prof. Dr. M. Zafar	Syed Habib Shah
19.	Khurram Shahzad 01-262162-019	MS Geology	Facies Architecture Development of Pirkoh Formation and Habib Rahi Formation; Implication for the Reservoir Properties, Sulaiman Fold & Thrust Belt, Dera Ghazi Khan, Pakistan	Mr. Mumtaz Ali Khan	Hafiz Muhammad Shahzad Anjum
20.	Mubashir Khan 01-262162-020	MS Geology	Geochemical Characterization of Early Permian formation, Potwar Sub Basin, Pakistan	Mr. Tausif Ahmad	Dr. Abbas Ali Naseem



21.	Muhammad Jawad 01-262162-021	MS Geology	Paleo Environments and Diagenetic Settings of Eocene Shekhan Formation, Panoba Village, North-Eastern Kohat Plateau, Kohat, Pakistan	Mr. Saqib Mehmood	Dr. M. Muhtaba
22.	Naveed Khan 01-262162-023	MS Geology	Geochemical Characterization and Correlation of Crude Oil in the Kohat Sub Basin, Pakistan	Mr. Tausif Ahmad	Dr. Birkeez Aslam Shami
23.	Umair Aftab Choudary 01-262162-036	MS Geology	Structural Analysis of Rumli Area, Islamabad, Pakistan	Mr. Mumtaz Ali Khan	Muhammad Awais
24.	Muzammal Hussain 01-262162-037	MS Geology	Structural Analysis of Shah AllaDitta, Islamabad, Pakistan	Mr. Saqib Mehmood	Rana Imran
25.	Muhammad Zeeshan Nabi 01-262162-043	MS Geology	The Impact of Kingri Strike-Slip Fault on the Hydrocarbon Prospectivity, Eastern Sulaiman Fold Belt, Pakistan	Mr. Saqib Mehmood	Mohsin Munir
26.	Sadiq Raza 01-262162-044	MS Geology	Lithofacies and Microfaies analysis of Kohat Formatio, Panoba Village, Kohat Sub Basin, Pakistan	Prof. Dr. Tahseenullah Khan	Dr. M. Muhtaba
27.	Mian Sajjad Hussain 01-262162-046	MS Geology	Geochemical Charatezation of Oil Seeps in Kohat Sub Basin,	Prof. Dr. M. Zafar	Asim Nawaz
28.	Nayab Abeer 01-262162-027	MS ES	Determination of Selected Inorganic Contamination In Drinking Water and Human Health Risk Assessment in Islamabad, Pakistan	Dr. Humera Farrah	Dr. Hamid Iqbal
29.	Saima Nazir Khan 01-262162-031	MS ES	Assessment of Particulate Matters PM2.5 and PM10 in Industrial and Residential Area of Islamabad, Pakistan	Mr. Asif Javed	Dr. Sheikh Saeed
30.	Faryal Mansoor 01-262162-026	MS ES	Phytoremediation of arsenic contaminated ground water using water lettuce (Pistiastratiotes)	Dr. Aansa Rukya	Dr. Abida Farooqi
31.	Raihan Ahmad 01-262162-	MS ES	Microbial Evaluation of Shahpur Dam, Attck District	Mr. Umair Ullah Jamil	Dr. Waqar Un Nisa



	028				
32.	Saadia Majeed 01-262162-029	MS ES	Bioaccumulation & Oxidative Stress in Fish on Chlorpyrifos Exposure	Dr. Said Akbar Khan	Dr. Nazanin Bangash
33.	Waqas Ahmad 01-262162-038	MS ES	Impact Evaluation of Acid Mine Drainage on Physiochemical Properties of Soil and Aquifer Around Coal Mining Area in Chakwal, Punjab, Pakistan	Ms Fiza Sarwar	Dr. Ashiq Muhammad
34.	Abdul Karim Siddiquie 01-262162-041	MS ES	Assessment of Selected Heavy Metals in PM10 & PM2.5 and their Associated Health Risk Around Waris Khan, Rawalpindi	Mr. Khubaib Abuzar	Dr. Azeem Khalid
35.	Zufishan Anjum 01-262162-033	MS ES	Potential of Invasive Plant derived Biochar as Soil Amendment and Metal Immobilizer	Dr. Aansa Rukya	Dr. Sheikh Saeed
36.	Saifullah 01-262162-030	MS ES	Assessing the effects of Land Use/Cover Change on Hydrological Regime of Kunhar River Basin, Pakistan	Mr. Asif Javed	Dr. Bashir Ahmad

Action by: HoD EES, IC

Item 5.18 Inclusion of Experts in the pool of Foreign Evaluators –EES Department, IC

Discussion

46. HoD EES, IC, presented the CV of Dr. Ilker Ugulu for inclusion in the pool of foreign evaluators. The details of Dr. Ugulu are as follows.

S No.	Name	Affiliation	Designation	Research Areas
1.	<u>Dr. Ilker Ugulu</u>	Dokuz Eylul University, Izmir, Turkey	Associate Professor	Ecology and Environmental pollution

Decision

47. FRC approved the case of Dr. Ugulu for recommendation to HERC to include him in the pool of foreign evaluators.

Action by: HoD E&ES, IC

**Item 5.19 Inclusion of Experts in the list of Local External Examiners (PhD Programs) – EES, IC****Discussion**

48. HoD E&ES, IC, presented CVs of local experts for inclusion in the pool of local external examiners and subsequent recommendation to the HERC.

Decision

49. The following list of examiners was approved for inclusion in the pool of local external examiners and further recommendation to the HERC (for evaluation of PhD theses).

No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Irfan U. Jan	NCE in Geology, University of Peshawar, Pakistan	Associate Professor	Geology
2.	Dr. Muhammad Hanif	NCE in Geology, University of Peshawar, Pakistan	Associate Professor	Geology
3.	Dr. Nimat Ullah Khattak	NCE in Geology, University of Peshawar, Pakistan	Professor/Director, NCE in Geology, University of Peshawar, Pakistan	Geology
4.	Dr. Muhammad Iqbal Hajana	Weatherford	Sr. Geophysicist	Geophysics
5.	Prof. Dr. Mohammad Tahir Shah	FATA University	Vice Chancellor	Geology
6.	Dr. Abbas Ali Naseem	Department of Earth Science, Quaid-e-Azam University	Assistant Professor	Geochemistry
7.	Dr. Lamuail Bashir	LMKR	Principal Geoscientist	Geophysics
8.	Dr. Samina Jehandad	HDIP	Geochemist	Geochemistry
9.	Dr. Rashid Saeed	Department of Environmental Sciences, University of Gujrat	Associate Professor	Environmental Management:
10	Dr. Hidayat Ullah	Pakistan Environmental Protection Agency, Islamabad	Deputy Director	Synthetic and Catalytic Organic Chemistry
11	Dr. Said Muhammad	Department of Earth & Environmental Sciences, COMSATS, Abbottabad,	Assistant Professor	Water and Soil Chemistry
12	Dr. Tahir Hayat	Department of Earth & Environmental Sciences, COMSATS	Assistant Professor	Environmental pollution
13	Dr. Anwar Zaib Khan	Department of Earth & Environmental Sciences, COMSATS	Assistant Professor	Heavy metal contamination
14	Dr. Muhammad Asad Ghufraan	Department of Environmental Science, International Islamic University, Islamabad	Assistant Professor	Environmental Sciences

**Action by:** HoD E&ES, IC**Item 5.20 Inclusion of Experts in the list of Local External Examiners (MS Programs) – EES, IC****Discussion**

50. HoD E&ES, IC, presented CVs of local experts for inclusion in the pool of local external examiners for MS programs.

Decision

51. The following list of examiners was approved for inclusion in the pool of local external examiners.

S No.	Name	Affiliation	Designation	Research Areas
1.	Dr. Irfan U. Jan	NCE in Geology, University of Peshawar, Pakistan	Associate Professor	Geology
2.	Dr. Muhammad Hanif	NCE in Geology, University of Peshawar, Pakistan	Associate Professor	Geology
3.	Dr. Nimat Ullah Khattak	NCE in Geology, University of Peshawar, Pakistan	Professor/Director, NCE in Geology, University of Peshawar, Pakistan	Geology
4.	Dr. Muhammad Iqbal Hajana	Weatherford	Sr. Geophysicist	Geophysics
5.	Dr. Samina Jehandad	HDIP	Geochemist	Geochemistry
6.	Dr. Rashid Saeed	Department of Environmental Sciences, University of Gujrat	Associate Professor	Environmental Management:
7.	Dr. Hidayat Ullah	Pakistan Environmental Protection Agency, Islamabad	Deputy Director	Synthetic and Catalytic Organic Chemistry
8.	Dr. Said Muhammad	Department of Earth & Environmental Sciences, COMSATS, Abbottabad,	Assistant Professor	Water and Soil Chemistry
9.	Dr. Tahir Hayat	Department of Earth & Environmental Sciences, COMSATS	Assistant Professor	Environmental pollution
10	Dr. Anwar Zaib Khan	Department of Earth & Environmental Sciences, COMSATS	Assistant Professor	Heavy metal contamination
11	Dr. Muhammad Asad Ghufraan	Department of Environmental Science, International Islamic University, Islamabad	Assistant Professor	Environmental Sciences
12	Aniqa Batool	Dept. of Environmental Sciences, PMAS-Arid Agriculture University Rawalpindi	Lecturer	Environmental Sciences



13	Muhammad Atif Iqbal	Visiting Faculty BU	Visiting Faculty BU	Geology, Geochemistry
14	Shoaib Amir Faheem	LMKR	Geoscientist	Geology

Item 5.21 Termination of the candidacy of the student from MS program due to unsatisfactory Progress Reports—EES, Department, IC

Discussion

52. HoD EES, IC presented the case of Mr. Sardar Muhammad Umer Farooq (01-262142-030), enrolled in the MS Geology program. The research supervisor of the student has submitted three unsatisfactory progress reports to the department. The student was informed by the Department to present himself in front of DRC on 25th October, 2017 and give reasons for the un-satisfactory progress but the student did not appear. Due to non-compliance, the case is being forwarded to FRC for the “Termination of the Candidacy” of the student from the degree program

Decision

53. On recommendation of the DRC, FRC approved the termination of candidacy of the following student, department to follow the defined procedures to formalize the termination.

SNo.	Name of Student	Enrollment #	Program
1.	Sardar Muhammad Umer Farooq	01-262142-030	MS Geology

Action by: HoD EES, IC

Item 5.22 Appointment of Examiners for MS Thesis Defence — SE, Department, IC

Discussion

54. HoD SE, IC, presented the case of MS students for approval of examiners for the final defence.

Decision

55. The following examiners were approved by the FRC for the final thesis defence of the listed students.

SNo.	Name (Enrollment #)	Program	Thesis Title	Supervisor	Internal Examiner	External Examiner
1	Hira Zarif 01-244151-032	MS-SE	Test Case Prioritization Using ANT Colony	Dr Tamim A Khan	Dr Shahid Nazir Bhatti	Dr Imran Babar



			Optimization			
2	Komal Jahangir 01-244152-051	MS-SE	Perception of e-Learning Satisfaction and It's Antecedents at Early Age Education in Pakistan	Dr Tamim A Khan	Dr Raja M Suleman	Dr Khalid Saleem
3	Amina Sadiq 01-244152-046	MS-SE	Usability Evaluation of Educational Games Utilizing Game Based Learning at Early Education Level	Dr Tamim A Khan	Dr Awais Majeed	Dr Iftikhar Azeem
4	Makkia Abbasi 01-244152-053	MS-SE	Micro-services Architecture for Disaster Management Systems	Dr Awais Majeed	Dr Tamim A Khan	Dr Usman Qamar
5	Aamir Anwar 01-241161-001	MS-SE	Tutor Model Authoring Component for NDLauthor to Support Multiple Scaffolding Techniques	Dr Raja M Suleman	Dr Tamim A Khan	Dr Arslan Shaukat
6	Imdad Ahmad 01-241161-006	MS-SE	Analysis of Self-Assessment Skills of Novice Software Developers working in Professional Software Development	Dr Raja M Suleman	Dr Awais Majeed	Dr. Asim Noor



			Industry			
7	Ali Raza 01-241161-002	MS-SE	Determining the Intended Time of Implicit Temporal Queries	Dr Asfand e Yar	Dr Shahid Nazir Bhatti	Dr. Hammad Afzal
8	Saeed ur Rehman 01-241161-013	MS-SE	Entities Terms and Phrases for Recover Dead Broken Links	Dr Asfand e Yar	Dr. Sabina	Dr. Majid Iqbal Khan
9	Zeeshan Saleem 01-241161-017	MS-SE	A detailed Investigation of Impact of Text Pre-Processing and Attribute Selection Methods on the Performance of Classification Algorithms	Dr Kashif Naseer	Dr Raja M Suleman	Dr Hammad Afzal

Action by: HoD SE, IC

Item 5.23 Change of Internal Examiner for MS Thesis Defence — SE, Department, IC

Discussion

56. HoD SE, IC, presented the case of MS student Adnan Shaukat for whom the following panel was approved for the final thesis defence in the 3rd meeting of the FRC.

SNo.	Name (Enrollment #)	Program	Thesis Title	Internal Examiners	External Examiners
1	Adnan Shaukat (01-244151-028) Supervisor: Dr Shahid Nazir Bhatti	MS-SE	Maintaining high data utility while preserving data privacy in data publishing	Dr. Muhammad Muzammal	Dr. Malik Ahmad



57. The internal examiner Dr. Muhammad Muzammal has proceeded to the study leave and change of internal examiner was requested by the HoD SE, IC.

Decision

58. The internal examiner of the candidate was replaced and the following revised panel was approved by the FRC for the final thesis defence.

SNo.	Name (Enrollment #)	Program	Thesis Title	Internal Examiner	External Examiner
1	Adnan Shaukat (01-244151-028) Supervisor: Dr Shahid Nazir Bhatti	MS-SE	Maintaining high data utility while preserving data privacy in data publishing	Dr. Raja Suleman	Dr. Malik Ahmad

Action by: HoD SE, IC

Item 5.24 Termination of Candidacy PhD Scholar — SE, Department, IC

Discussion

59. HoD SE, IC, presented the case of PhD Scholar Ms. Maryam Akhtar Kiyani who was supposed to appear for proposal defence in August 2017. It was pointed out that the candidate did not appear in the defence due to her service commitments. Her time to clear the defence was already extended by the 3rd FRC as she had also frozen one of the semesters after clearing comprehensive exam. Since then, she has not contacted the department and has not informed about her status. The candidate has also been issued 2 unsatisfactory reports by her supervisor.
60. HoD SE, IC requested the FRC to approve the termination of candidacy of Ms. Maryam A. Kiyani.

Decision

61. FRC recommended the department to proceed with the formal termination procedure of the candidate.

Action by: HoD SE, IC



Item 5.25 Appointment of Examiners for MS Thesis Defence — SE, Department, KC

Discussion

62. HoD SE, KC, presented the case of MS student Ms. Tahira Niazi (02-244142-018) for approval of examiners for the final thesis defence.

Decision

63. On recommendation of the DRC, the following examiners were approved by the FRC for the final thesis defence of Ms. Tahira Niazi.

SNo.	Name (Enrollment #)	Program	Thesis Title	Internal Examiner	External Examiner
1	Tahira Niazi 02-244142-018	MS (SE)	A Correlation Analysis of Personality Assessment and Social Network Structure	Dr. Moazzam Niazi	Dr. Ali Hanzala Khan

Action by: HoD SE, KC

Item 5.26 Inclusion of Experts in the list of Local External Examiners – SE, Department, KC

Discussion

64. HoD SE, KC, presented CVs of local experts for inclusion in the pool of local external examiners.

Decision

65. The following list of examiners was approved for inclusion in the pool of local external examiners.

SNo.	Name	Affiliation	Designation	Research Areas
1	Dr. Kamran Ahsan	Federal Urdu University of Science & Technology	Assistant Professor	Knowledge Management, Mobile Computing
2	Dr. Syed Akhter Raza	Federal Urdu University of Science & Technology	Assistant Professor	Data Science, Data Mining, Statistical Analysis
-3	Dr. Muhammad	Federal Urdu	Assistant Professor	Digital Image Processing,



	Sarim	University of Science & Technology		Computer Vision, Machine Learning
--	-------	---------------------------------------	--	--------------------------------------

Action by: HoD SE, KC

Item 5.27 Appointment of Supervisor/Advisory Committee: PhD Candidate - SE Department, KC

Discussion

66. HoD SE, KC presented the case of PhD candidate Ms. Bushra Fazal Khan (Enrolment#02-200181-009) for the appointment of supervisor and advisory committee. The candidate intends to work on Semantic Web and Adaptive Learning Systems.

Decision

67. FRC approved the following appointments for the PhD candidate. The appointments are to be notified by HOD SE, KC.

SNo.	Student Name	Supervisor	Advisory Committee
1	Bushra Fazal Khan (02-200181-009)	Dr. Sohaib Ahmed	1. Dr Sohaib Ahmed 2. Dr Rizwan Iqbal 3. Dr Kamran Ahsan

Action by: HoD SE, KC

Item 5.28 Appointment of Examiners PhD Comprehensive Exam – EE Dept., KC

Discussion

68. HoD EE, KC, presented the case of PhD candidate Ms. Arshee Ahmed (Intake Spring 2017) who has completed her course work and have to appear for the Ph.D. comprehensive examination.

Decision

69. FRC approved the following courses and examiners for the PhD comprehensive exam of Ms. Arshee Ahmad.

- Smart Grid System Operation (Dr. Haroon Rasheed)
- Network Performance Evaluation (Dr. Najam Amin)
- Advanced Digital Signal Processing (Dr. Anzar Alam)



d. Advanced Topics in Wireless Networking and Communications (Dr. Syed Safdar Ali)

Action by: HoD EE, KC

Item 5.29 Appointment of Examiners PhD Proposal Defence– EE Dept., KC

Discussion

70. HoD EE, KC, presented the case of the following PhD (EE) scholars who need to appear for the proposal defense.

S No.	Candidate Name	Dissertation Title	Principle Supervisor	Co-Supervisor
1.	Engr. Shah Najamus Saqib	Enabling mm-Wave communication for Wireless Ad-hoc and social networks.	Dr. Anzar Alam	Dr. Najam Amin
2.	Engr. Muhammad Khalid	Channel Estimation and Coding Scheme for OFDM based Smart Grid Communications	Dr. Haroon Rasheed	-

Decision

71. FRC approved the following internal and external evaluators for the proposal defense of the two candidates. HoD EE, KC to ensure that the proposal defense is carried out within the time duration allowed to the students as per applicable rules.

S No.	Candidate Name	Dissertation Title	Internal Examiner	External
1.	Engr. Shah Najamus Saqib	Enabling mm-Wave communication for Wireless Ad-hoc and social networks.	1. Dr. Safdar Ali 2. Dr. Shagufta Henna (BUIC)	1. Dr. Rehan Qureshi 2. Dr. Arif Iqbal
2.	Engr. Muhammad Khalid	Channel Estimation and Coding Scheme for OFDM based Smart Grid Communications	1. Dr. M. Ghulam 2. Dr. Saleem Aslam (BUIC)	1. Dr. Dost Muhammad 2. Dr. Hashim Raza



Action by: HoD EE, KC

Item 5.30 Appointment of Examiners MS Thesis Defence– EE Dept., KC

Discussion

72. HoD EE, KC, presented the case of the following MS (EE) students who have submitted their final thesis for the defense.

No.	Name	Thesis Title	Supervisor
1.	Zaryab Qazi	Modeling and Analysis of Smart Outcome-based education Application	Dr. Haroon Rasheed
2.	Mirza Waqas Baig	Interference cancellation for in-band transceiver system	Dr. Najam Amin

Decision

73. FRC approved the following examiners for the final defense of the two candidates.

No.	Name	Thesis Title	Internal Examiner	External Examiner
1.	Zaryab Qazi	Modeling and Analysis of Smart Outcome-based education Application	Dr. Sohaib Ahmed	Dr. Sajjad Zaidi
2.	Mirza Waqas Baig	Interference cancellation for in-band transceiver system	Dr. Haroon Rasheed	Dr. Bilal Khan

Action by: HoD EE, KC

Item 5.31 Appointment of Foreign Evaluators for PhD Theses

Discussion

74. Secretary FRC presented the agenda item related to the appointment of foreign evaluators for PhD theses. Foreign evaluation of PhD theses is one of the most critical steps towards award of the PhD degree. The current practice at Bahria University is that the HERC maintains a pool of foreign experts from which evaluators are recommended by FRC. Out of the four recommended experts, the Competent Authority finalizes two evaluators.



75. It was deliberated in the house that evaluation of PhD research requires very specialized expertise not only in the same domain but on very similar problems as that of the research being evaluated. Maintaining a pool cannot encompass the broad spectrum of research problems. In most cases, it is also not possible to get relevant experts added in the pool when a candidate is approaching the final submission. Consequently, in terms of relevance, the selection of experts has to be compromised in many cases.
76. Members of the house highlighted that in almost all reputed Universities of the country, the practice is to identify relevant experts in technologically advanced countries near the thesis submission and get their nomination approved through the defined procedures of the University.
77. It was also pointed out that many renowned researchers in advanced countries find the idea of having their names in pool quiet bizarre and hence are hesitant to give their consent. On the other hand, if they are contacted using the general norm with a specific thesis title, in most cases, they are happy to serve as evaluator.
78. Members of FRC agreed that having relevant evaluators approved as a function of the research theme of each specific thesis will not only simplify the procedures but will also serve to enhance the quality of the review process and consequently the received review reports.
79. Director PGP pointed out that HEC policies on foreign evaluation of PhD theses should also be consulted in this regard.

Decision

80. FRC recommended the agenda item for further deliberations in the HERC.

Action by: Chair, FRC

Item 5.32 Distribution of Marks – PhD Course Work

Discussion

81. Secretary FRC presented the agenda item related to the distribution of marks in the PhD course work. The PhD credited course work has 30% of the marks attributed to continuous semester assessments. These include quizzes, assignments, homework and presentations.



The distribution of 30% marks into the mentioned assessment schemes, however, is not specified. On the other hand, the marks entry module accepts marks as 20% assignments and 10% quizzes.

82. Members of FRC were requested to provide their views on this point.

Decision

83. Majority of the members in the FRC did not find any issues with the current practice of 20% assignments and 10% quizzes. The house agreed that other modes of assessments (case studies, presentations etc.) can also be considered in the category of assignments.

84. Chair FRC suggested that this agenda item should also be discussed in the FRC of Management Sciences and based on the feedback, a consolidated recommendation should be formulated.

Action by: Chair, FRC

Closing Remarks

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

February 25, 2018

Prof. Dr. M. Najam-ul-Islam

Chair – FRC, Dean ES