



Meeting Minutes

9th FRC, Faculty of Engineering Sciences
June 25, 2019

Contents

Attendees	4
Opening Remarks	4
Agenda	5
Agenda Items.....	5
Item 9.1 Appointment of Examiners for MS Thesis Defense – SE Department, KC.....	5
Item 9.2 Appointment of Examiners for PhD Comprehensive Exam – SE Department, KC	6
Item 9.3 Change in Advisory Committee of PhD Candidate – SE Department, KC	7
Item 9.4 Inclusion of Experts in the List of Foreign Evaluators – CS Department, KC	8
Item 9.5 Appointment of Examiners for MS Thesis Defense – CS Department, KC.....	8
Item 9.6 Appointment of Examiners for PhD Proposal Defense – CS Department, KC	9
Item 9.7 Appointment of Examiners for PhD Comprehensive Exam - CS Department, KC	10
Item 9.8 Change of PhD Research Title and Supervisor – CS Department, KC.....	11
Item 9.9 Change of External Examiner: PhD Final Defense – CE Department, IC	11
Item 9.10 Change of Supervisor and Advisory Committee Members: PhD Candidate – CE Department, IC	13
Item 9.11 Appointment of Co-Supervisor: PhD Candidates – CE Department, IC	13
Item 9.12 Appointment of Examiners for PhD Proposal Defense – CE Department, IC	14
Item 9.13 Appointment of Examiners for PhD Comprehensive Exam – CE Department, IC	15
Item 9.14 Appointment of Examiners for PhD Proposal Defense - CE Department, IC.....	16
Item 9.15 Recommendation of Foreign Evaluators, PhD Candidate - CE Department, IC.....	16
Item 9.16 Appointment of Examiners for MS Thesis Defense – CE Department, IC.....	17
Item 9.17 Appointment of Examiners for PhD Comprehensive Exam – CE Department, IC	17



Item 9.18 Appointment of Examiners for PhD Proposal Defense - CE Department, IC	18
Item 9.19 Appointment of Examiners for MS Thesis Defense – CS Department, IC	19
Item 9.20 Change of Supervisor: PhD Candidate – CS Department, IC	26
Item 9.21 Appointment of Examiners for PhD Proposal Defense – CS Department, IC	27
Item 9.22 Appointment of Examiners for PhD Comprehensive Exam – CS Department, IC	28
Item 9.23 Appointment of Supervisor and Advisory Committee: PhD Candidate – CS Department, IC	30
Item 9.24 Drop from PhD (CS) Program – CS Department, IC.....	31
Item 9.25 Change/approval of Co-supervisors for PhD Scholars – EES Department, IC.....	31
Item 9.26 Appointment of Examiners for PhD Proposal Defense --- E&ES Department, IC	32
Item 9.27 Cancellation of the Candidacy of MS Student – EES Department, IC	33
Item 9.28 Change of Supervisor and/or Research Topics of MS Environmental Sciences Student – EES Department, IC	34
Item 9.29 Appointment of Examiners for MS Thesis Defense – EES Department, IC	35
Item 9.30 Inclusion of Experts in the list of Local External Examiners – EES Department, IC	40
Item 9.31 Payment of Honorarium to External Examiners on the day of Presentation cum Viva Voce – EES Department, IC.....	41
Item 9.32 Appointment of Examiners for PhD Comprehensive Exam – EES Department, IC.....	42
Item 9.33 Inclusion of Experts in the list of Local External Examiners – CS Department, LC	43
Item 9.34 Appointment of Examiners for MS Thesis Defense – CS Department, LC	43
Item 9.35 Appointment of Examiners for PhD Proposal Defense – EE Department, KC	46
Item 9.36 Appointment of Examiners for MS Thesis Defense – EE Department, KC.....	46
Item 9.37 Failure to Pass the PhD Proposal Defense – EES Department, KC	47
Item 9.38 Unsatisfactory Progress of MS Research Students – EES Department, KC.....	48
Item 9.39 Change of Supervisor, PhD Candidate – EES Department, KC	48
Item 9.40 Appointment of Examiners for MS Thesis Defense – SE Department, IC	49
Item 9.41 Cancellation of Candidacy, PhD Scholar – SE Department, IC.....	56
Item 9.42 Ratification of External Examiner for MS Thesis Defense – SE Department, IC	57



Item 9.43 Inclusion of Expert in the list of Local External Examiners – SE Department, IC.....	57
Item 9.44 Appointment of Examiners for MS Thesis Defense – EE Department, IC.....	58
Item 9.45 Appointment of Examiners for PhD Proposal Defense – EE Department, IC	60
Item 9.46 Cancellation of Admission, PhD Scholar – EE Department, IC	61
Item 9.47 Inclusion of Experts in the list of Local External Examiners – EE Department, IC	62
Item 9.48 Recommendation of Foreign Evaluators, PhD Candidate - EE Department, IC.....	63
Item 9.49 Appointment of Examiners for PhD Comprehensive Exam – EE Department, IC.....	64
Item 9.50 Travel Grant Policy for Local Conferences	64
Closing Remarks	65



1. The 9th meeting of the Faculty Research Committee of the Faculty of Engineering Sciences (FRC-ES) was held on June 25, 2019 in the Video Conference Room, Quaid Block at 1000 hours.

Attendees

2. The meeting was attended by the following:
 - i. Dr. M. Najam-ul-Islam Dean ES, Chair (FRC-ES)
 - ii. Dr. Tahseenullah Khan HoD EES Dept., IC
 - iii. Dr. Shehzad Hassan (For) HoD CE Dept., IC
 - iv. Dr. Muhammad Muzammal HoD CS Dept., IC
 - v. Dr. Syed Safdar Ali Rizvi HoD CS Dept., KC
 - vi. Mr. Farhan Sheerazi HoD, CS Dept., LC
 - vii. Dr. Atif Raza Jafri HoD, EE Dept., IC
 - viii. Dr. Haroon Rasheed HoD EE Dept., KC
 - ix. Dr. Awais Majeed HoD SE Dept., IC
 - x. Dr. Sohaib Ahmad HoD SE Dept., KC
 - xi. Dr. Muhammad Zafar Snr. Professor, EES Dept., IC
 - xii. Dr. Mehrab Khan Snr. Professor, EES Dept., KC
 - xiii. Dr. Muhammad Ramzan Snr. Professor, CS Dept, IC
 - xiv. Dr. Tamim Ahmed Khan Snr. Professor, SE Dept, IC
 - xv. Dr. Asim Qureshi ASP, CS Dept., LC
 - xvi. Dr. Imran Siddiqi Professor CS Dept., IC (Secretary FRC-ES)

Opening Remarks

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

Agenda

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

Agenda Items

Item 9.1 Appointment of Examiners for MS Thesis Defense – SE Department, KC

Discussion

6. HoD SE, KC, presented the cases of the following 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 listed candidates.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Nasr Kamal (02-241171-005)	Dr Anzar Alam	MS (SE)	3D image acquiring technique with improved accuracy
2	Muhammad Mursaleen Javed (02-241171-004)	Dr Sohaib Ahmed	MS (SE)	A code traceability conceptual modelling using semantic approach
3	Syed Ahmed Hassan Bukhari (02-241172-013)	Dr Sohaib Ahmed	MS (SE)	An intelligent inquiry-based learning environment using ontology driven approach
4	Sahareesh Agha (02-241172-002)	Dr Osama Rehman	MS (SE)	Improving dissemination accuracy rate of DDOS attacks from flash events
5	Masooma Fatima (02-241172-009)	Dr Osama Rehman	MS (SE)	Intelligent intrusion detection in cyber security

Decision

7. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.



S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Nasr Kamal (02-241171-005)	3D image acquiring technique with improved accuracy	Dr. Aurangzeb Rashid	Dr. M. Sarim
2	Muhammad Mursaleen Javed (02-241171-004)	A code traceability conceptual modelling using semantic approach	Dr. Rizwan Iqbal	Dr. Kamran Ahsan
3	Syed Ahmed Hassan Bukhari (02-241172-013)	An intelligent inquiry-based learning environment using ontology driven approach	Dr. Raheel Siddiqui	Dr. Hameedullah Kazi
4	Sahareesh Agha (02-241172-002)	Improving dissemination accuracy rate of DDOS attacks from flash events	Dr. Bilal Hameed	Dr. Arshad Aziz
5	Masooma Fatima (02-241172-009)	Intelligent intrusion detection in cyber security	Dr. M. Usama	Dr. Rehan Qureshi

Action by: HoD SE, KC

Item 9.2 Appointment of Examiners for PhD Comprehensive Exam – SE Department, KC

Discussion

8. HoD SE, KC presented the case of Engr. Mahawish enrolled in the PhD (SE) program with the following particulars.

SNo.	Name (Enrolment #)	Program	Supervisor	Thesis Title
1	Engr. Mahawish (02-200182-006)	PhD (SE)	Dr Osama Rehman	Cyber security in connected vehicles

9. The candidate has completed her course work and needs to appear for the PhD comprehensive exam. FRC was requested to approve relevant subjects and appoint appropriate examiners for the PhD Comprehensive Exam of Engr. Mahawish.

Decision

10. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of Engr. Mahawish (02-200182-006).



SNo.	Name (Enrolment #)	Course	Examiner
1	Engr. Mahawish (02-200182-006)	Ubiquitous Computing & Interaction	Dr. M. Usama
		Advanced Network Security	Dr. Osama Rehman
		Advanced Artificial Intelligence	Dr. Raheel Siddiqui
		Pattern Recognition	Dr. Sohaib Ahmed

Action by: HoD SE, KC

Item 9.3 Change in Advisory Committee of PhD Candidate – SE Department, KC

Discussion

11. The advisory committee of PhD candidate Engr. Mahawish (01-281131-002) was approved in the 7th meeting of the FRC-ES and comprised the following members.

SNo.	Name (Enrolment #)	Supervisor	Thesis Title	Advisory Committee
1	Engr. Mahawish (02-200182-006)	Dr. Osama Rehman	Cyber security in connected vehicles	1. Dr. Osama Rehman 2. Dr. Moazzam Niazi 3. Dr. Arshad Aziz

12. HoD SE, KC informed the house that Dr. Moazzam Fareed Niazi has resigned from the University and the advisory committee needs to be reformulated. DRC recommended Dr. Muhammad Usama, Senior Assistant Professor, Department of Computer Science, BUKC, to replace Dr. Moazzam Niazi in the advisory committee.

Decision

13. Based on the recommendation of DRC, FRC approved the following advisory committee for PhD candidate Engr. Mahawish (01-281131-002).

SNo.	Name (Enrolment #)	Supervisor	Thesis Title	Advisory Committee
1	Engr. Mahawish (02-200182-006)	Dr. Osama Rehman	Cyber security in connected vehicles	1. Dr. Osama Rehman 2. Dr. Muhammad Usama 3. Dr. Arshad Aziz

Action by: HoD SE, KC



Item 9.4 Inclusion of Experts in the List of Foreign Evaluators – CS Department, KC

14. HoD CS, KC, presented the profiles of Dr. Sajid Siraj, Dr. Suziah Sulaiman and Dr. M. Nordin Zakaria from technologically advanced countries for recommendation to HERC to include him in the pool of foreign evaluators.

Decision

15. FRC approved the following experts for recommendation to the HERC to include him in the pool of foreign PhD evaluators.

SNo.	Name	Affiliation	Post PhD Experience	Area of Specialization
1.	Dr. Sajid Siraj	University of Leeds, UK	08 years	Machine learning, Multi-criteria decision analysis, and decision support systems
2.	Dr. Suziah Sulaiman	Universiti Teknologi, PETRONAS, Perak, Malaysia	12 years	Human Computer Interactions and Health Informatics
3.	Dr. M Nordin Zakaria	Universiti Teknologi, PETRONAS, Perak, Malaysia	12 years	Artificial Intelligence, Parallel and Distributed Computing

Action by: HoD CS, KC

Item 9.5 Appointment of Examiners for MS Thesis Defense – CS Department, KC

Discussion

16. HoD CS, KC, presented the cases of the following 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 listed candidates.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Muhammad Marouf (02-243171-017)	Dr. Raheel Siddiqi	MS(CS)	Automated Hand X-Ray Based Gender Classification and Bone Age Assessment Using Convolution Neural Networks
2	Muhammad Bilal (02-243171-016)	Dr. Humera Farooq	MS(CS)	An assessment of attention level and cognitive load towards E-Learning and classroom environment using BCI
3	Muhammad Shahzad (02-243172-009)	Dr. Bilal Hameed	MS(CS)	Improving Smart Grid Communications



Decision

17. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Muhammad Marouf (02-243171-017)	Automated Hand X-Ray Based Gender Classification and Bone Age Assessment Using Convolution Neural Networks	Dr. Humera Farooq	Dr. Najeed Ahmed Khan
2	Muhammad Bilal (02-243171-016)	An assessment of attention level and cognitive load towards E-Learning and classroom environment using BCI	Dr. Tamim A. Khan - BUIC	Dr. Humera Tariq
3	Muhammad Shahzad (02-243172-009)	Improving Smart Grid Communications	Engr. Dr. Mukesh Kumar Maheshwari	Dr. Jawwad A. Shamsi

Action by: HoD CS, KC

Item 9.6 Appointment of Examiners for PhD Proposal Defense – CS Department, KC

Discussion

18. Ms. Sameena Javaid (02-284172-002) enrolled in the PhD (CS) program cleared her comprehensive exam in August 2018 and is now ready to appear for the PhD proposal defense. FRC was requested to appoint an appropriate panel of examiners to conduct the PhD proposal defense of the candidate.

Decision

19. On recommendation of the DRC, FRC appointed the following panel of examiners to conduct the PhD Proposal Defense of Ms. Sameena Javaid (02-284172-002). Department must ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

S No.	Name (Enrolment #)	Program	Research Title	Internal Examiner	External Examiners
1	Ms. Sameena Javaid (02-284172-002)	PhD (CS)	Dynamic Gesture Recognition using IoT and Depth Data	Dr. Sohaib Ahmed	1. Dr. Ali Abbas – NED 2. Dr. Noman Islam – Iqra University

Action by: HoD CS, KC



Item 9.7 Appointment of Examiners for PhD Comprehensive Exam - CS Department, KC

Discussion

20. HoD CS, KC presented the cases of the following PhD candidates who have completed the course work and need to appear for the PhD Comprehensive exam. FRC was requested to appoint the panels of examiners and chose appropriate subjects for the comprehensive exam of the candidates.

S. No	Name (Enrolment No.)	Supervisor	Thesis Title
1	Tooba Mehtab (02-284182-003)	Dr. Rizwan Iqbal	Brain tumor detection and segmentation through machine learning techniques
2	Mona Leeza (02-284182-002)	Dr. Rizwan Iqbal	Grading Of Diabetic Retinopathy Through Oct Images Using Image Processing And Machine Learning Techniques

Decision

21. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of the listed candidates.

SNo.	Name (Enrolment #)	Course	Examiner
1	Tooba Mehtab (02-284182-003)	Advanced Digital Image Processing	Dr. Anzar Alam
		Advanced Neural Networks & Fuzzy Logic	Dr. Rizwan Iqbal
		Computer Vision	Dr. Imran Siddiqi – BUIC
		Advanced Artificial Intelligence	Dr. Humera Farooq
2	Mona Leeza (02-284182-002)	Advanced Digital Image Processing	Dr. Anzar Alam
		Advanced Neural Networks & Fuzzy Logic	Dr. Rizwan Iqbal
		Computer Vision	Dr. Imran Siddiqi – BUIC
		Advanced Artificial Intelligence	Dr. Humera Farooq

Action by: HoD CS, KC



Item 9.8 Change of PhD Research Title and Supervisor – CS Department, KC

Discussion

22. HoD CS, KC presented the case of Mr. Azmat Khan (02-284152-001) who is enrolled in the PhD (CS) program under the supervision of Dr. Humera Farooq. Dr. Humera Farooq has reported unsatisfactory progress of the candidate in March, 2019 and June, 2019.
23. In accordance with Para 27.3 of PhD Rules 2017, the candidate intends to change his thesis title. The candidate has also expressed his desire for change of supervisor.

Decision

24. FRC expressed its concern on the fact that the candidate was enrolled in Fall 2015 and by changing the research title at this stage the candidate may not be able to complete the research work within the PhD timelines.
25. FRC directed DRC/Advisory Committee of the candidate, to thoroughly look into the matter, identify the causes of unsatisfactory progress, evaluate the revised research proposal and submit its recommendations.
26. DRC evaluated the new research proposal of the candidate and though the members identified certain weak areas in the proposal, it was agreed that the candidate has the potential to improve the proposal and formally defend it. The new research proposal was prepared under the guidance of Dr. Bilal Hameed and the candidate expressed his interest in appointment of Dr. Bilal Hameed as his supervisor.
27. Dr. Bilal Hameed has less than three years of experience after PhD which hinders his appointment as the principal supervisor of the candidate. Therefore, on recommendation of the DRC, FRC appointed Dr. Sohaib Ahmed, Head, Dept. of SE, BUKC as the principal while Dr. Bilal Hameed as the co-supervisor of PhD candidate Mr. Azmat Khan (02-284152-001), with the consent of all stakeholders. FRC also directed the department to carry out the formal PhD proposal defense of the candidate in accordance with the PhD Rules.

Action by: HoD CS, KC

Item 9.9 Change of External Examiner: PhD Final Defense – CE Department, IC

Discussion

28. HoD CE, IC presented the case of Ms. Uzma Jamil who is enrolled as PhD scholar in the department of Computer Engineering (Enrolment #01-281121-004). The following panel of examiners was recommended in the 7th meeting of the FRC (Item 7.15) for the final PhD Defense of Ms. Uzma Jamil.



SNo.	Student	Thesis Title	Proposed Examiners
1.	Uzma Jamil (01-0128121-004)	Melanoma Versus Nevus Lesions Classification Using Dermoscopic Images	Internal Examiners <ul style="list-style-type: none"> • Dr. Imran Siddiqi • Dr. Samabia Tehseen External Examiners <ul style="list-style-type: none"> • Dr. Asif Ullah, Professor, PIEAS • Dr. Amanullah Yasin, Associate Professor, CASE. • Dr. Syed Muhammad Anwar, Associate Professor, UET Taxila,

29. The house was informed that one of the recommended examiners, Dr. Syed Muhammad Anwar, is out of the country and would not be available for the defense (in case approved by the honourable Rector). A change in the examination panel was therefore requested to the FRC.

Decision

30. As a function of research theme of the candidate, FRC recommended **Dr. Khawar Khurshid**, Assistant Professor at SEECs-NUST, to replace **Dr. Syed Muhammad Anwar** in the examination panel of Ms. Uzma Jamil. The revised recommended panel is listed in the following. The recommendations will be submitted to the honourable Rector for the selection and approval of the final panel.

SNo.	Student	Thesis Title	Proposed Examiners
1.	Uzma Jamil (01-0128121-004)	Melanoma Versus Nevus Lesions Classification Using Dermoscopic Images	Internal Examiners <ul style="list-style-type: none"> • Dr. Imran Siddiqi • Dr. Samabia Tehseen External Examiners <ul style="list-style-type: none"> • Dr. Asif Ullah, Professor, PIEAS • Dr. Amanullah Yasin, Associate Professor, CASE. • Dr. Khawar Khurshid, Assistant Professor, SEECs-NUST,



Action by: HoD CE, IC

Item 9.10 Change of Supervisor and Advisory Committee Members: PhD Candidate – CE Department, IC

Discussion

31. HoD CE, IC presented the case of Ms. Amina Waheed Awan (01-281171-005) who is enrolled in the PhD (CE) program and is working under the supervision of Dr. Amina Jameel. The candidate has requested for change of supervisor and Dr. Shehzad Khalid has provided his consent to supervise the candidate. The current supervisor, Dr. Amina Jameel has also provided her consent for the change. FRC was requested to approve the change of supervisor and reformulate the advisory committee of the candidate.

Decision

32. FRC stressed that in future all requests of change in supervisor must be accompanied with the justification of change. Such cases must be comprehensively deliberated in the advisory committee/DRC meetings and the change should only be recommended if the committees are satisfied with the reasons of changing the supervisor.
33. The following appointments were approved for PhD candidate Ms. Amina Waheed Awan (01-281171-005).

S. No.	Student	Supervisor	Advisory Committee
1	Amina Waheed Awan (01-281171-005)	Dr. Shehzad Khalid	Dr. Shehzad Khalid Dr. Amina Jameel Dr. Shujjat Khan

Action by: HoD CE, IC

Item 9.11 Appointment of Co-Supervisor: PhD Candidates – CE Department, IC

Discussion

34. Ms. Zahra Waheed Awan and Ms. Amina Waheed Awan are enrolled in the PhD (CE) program. The particulars of the candidates are listed in the following.



SNo.	Student	Thesis Title
1.	Zahra Waheed Awan 01-281171-006	Network on chip based Parallel Architecture of CNN for Object Classification
2	Amina Waheed Awan 01-281171-005	Analysis of Physiological Signals for Emotion Charting

35. The candidates (after consent of supervisor) have requested the appointment of Co-supervisor to provide technical support in the research work. Dr. Usman Akram, Associate Professor at College of E&ME, NUST, has provided his consent to co-supervise the candidates. FRC was requested to appoint Dr. Usman Akram as co-supervisor of Ms. Zahra Waheed Awan and Ms. Amina Waheed Awan.

Decision

36. On recommendation of DRC, FRC approved the appointment of Dr. Usman Akram, Associate Professor at College of E&ME, NUST as co-supervisor of Ms. Zahra Waheed Awan (01-281171-006) and Ms. Amina Waheed Awan (01-281171-005).

Action by: HoD CE, IC

Item 9.12 Appointment of Examiners for PhD Proposal Defense – CE Department, IC

Discussion

37. HoD CE, IC presented the cases of PhD candidates Ms. Zahra Waheed Awan and Ms. Amina Waheed Awan with the following particulars.

SNo.	Student	Thesis Title
1.	Zahra Waheed Awan 01-281171-006	Network on chip based Parallel Architecture of CNN for Object Classification
2	Amina Waheed Awan 01-281171-005	Analysis of Physiological Signals for Emotion Charting

38. The candidates have passed the PhD comprehensive exam and need to appear for PhD proposal defense. FRC was requested to appoint appropriate internal and external examiners for the PhD proposal defense of the candidates.

Decision

39. On recommendation of the DRC, FRC appointed the following panel of examiners to conduct the PhD Proposal Defense of Ms. Zahra Waheed Awan and Ms. Amina Waheed Awan.



Department must ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

S No.	Name (Enrolment #)	Program	Research Title	Internal Examiner	External Examiners
1	Zahra Waheed Awan 01-281171-006	PhD (CE)	Network on chip based Parallel Architecture of CNN for Object Classification	Dr. Khalid Javed	Dr. Yahya Jan – NESCOM Dr. Fawad Hussain - GIKI
2	Amina Waheed Awan 01-281171-005	PhD (CE)	Analysis of Physiological Signals for Emotion Charting	Dr. Saleem Aslam	Dr. Amanullah Yasin – CASE Dr. Khawar Khurshid – SEecs-NUST

Action by: HoD CE, IC

Item 9.13 Appointment of Examiners for PhD Comprehensive Exam – CE Department, IC

Discussion

40. Ms. Maria Ahmad (01-281181-003) is enrolled in the PhD (CE) program and is expected to complete her course work by the end of June 2019. FRC was requested to appoint appropriate examiners to conduct the PhD comprehensive exam of the candidate (subject to completion of course work).

Decision

41. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of Ms. Maria Ahmad (01-281181-003) subject to the completion of course work.

SNo.	Name (Enrolment #)	Course	Examiner
1	Maria Ahmad (01-281181-003)	Advanced Computer Networks	Dr. Faisal Bashir
		Wireless Communication Techniques	Dr. Shahzad Hassan
		Cloud Computing	Dr. Sabina Akhtar
		Smart Grid System Operation	Dr. Asad Waqar

Action by: HoD CE, IC



Item 9.14 Appointment of Examiners for PhD Proposal Defense - CE Department, IC

Discussion

42. HoD CE, IC presented the case of Ms. Maria Ahmad (01-281181-003) who is enrolled in the PhD (CE) program and is expected to complete her course work by the end of June 2019. FRC was requested to appoint a panel of examiners to conduct the proposal defense of the candidate subject to clearance of course work and passing of comprehensive exam.

Decision

43. FRC observed that a conditional approval for examiners of comprehensive exam has already been given (subject to passing the course work). A subsequent conditional approval of panel to conduct the proposal defense, hence, cannot be granted. The agenda item was therefore dropped.

Action by: NIL

Item 9.15 Recommendation of Foreign Evaluators, PhD Candidate - CE Department, IC

Discussion

44. HOD CE, IC presented the case of PhD (CE) candidate, Mr. Qazi Ziaullah (Enrolment# 01-281131-007). Examiners in the internal defense of the candidate have suggested major revisions and the candidate is in process of addressing the raised concerns. FRC was requested to recommend foreign evaluators for the technical evaluation of the thesis so that subsequent processing can be carried out timely in case of clearing the internal defense.

Decision

45. On recommendation of DRC, FRC recommended the following experts for the foreign evaluation of the PhD Thesis of Mr. Qazi Ziaullah (Enrolment# 01-281131-007) subject to the clearance of internal defense.

SNo.	Name	Designation	Affiliation	Country	Specialization
1.	Dr. Fabrizio Granelli	Associate Professor	DISI, University of Trento	Italy	Network performance modelling, cross-layering, wireless networks, cognitive radios and networks
2.	Dr. Raj Kumar Buyya	Redmond Barry Distinguished Professor	University of Melbourne	Australia	Cloud Computing and Distributed Systems
3.	Dr. Valentina Emilia Balas		University of Arad	Romania	Biomedical engineering, Intelligent Systems



4.	Dr. Meikang Qiu	Professor	Pace University New York	USA	Machine Learning, Big Data, Cyber Security, Cloud Computing, IoT, CPS, Smart Computing, and Embedded Systems
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Action by: HoD CE, IC

Item 9.16 Appointment of Examiners for MS Thesis Defense – CE Department, IC

Discussion

46. HoD CE, IC, presented the case of Mr. Iftikhar Ahmed (01-244162-029) who is enrolled in the MS (CE) program and is approaching the completion of his MS research work. The particulars of the candidate are summarized in the following.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Iftikhar Ahmed (01-244162-029)	Dr. Shahzad Hassan	MS (CE)	Hybrid Clustering Shortest Path Routing Protocol (SPRP) for WSNs

47. FRC was requested to appoint internal and external examiners for the MS thesis defense of Mr. Iftikhar Ahmed (01-244162-029).

Decision

48. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Iftikhar Ahmed (01-244162-029)	Hybrid Clustering Shortest Path Routing Protocol (SPRP) for WSNs	Dr. Faisal Bashir	Dr. Syed Hashim Raza – COMSATS Attock

Action by: HoD CE, IC

Item 9.17 Appointment of Examiners for PhD Comprehensive Exam – CE Department, IC

Discussion

49. Mr. Syed M. Usman (01-281182-002) is enrolled in the PhD (CE) program and is expected to complete his course work by the end of June 2019. FRC was requested to appoint appropriate



examiners to conduct the PhD comprehensive exam of the candidate (subject to completion of course work).

Decision

50. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of Mr. Syed M. Usman (01-281182-002) subject to the completion of course work.

SNo.	Name (Enrolment #)	Course	Examiner
1	Mr. Syed M. Usman (01-281182-002)	Pattern Recognition	Dr. Shehzad Khalid
		Advanced Artificial Intelligence	Dr. Shujjat Khan
		Machine Learning	Dr. Sumaira Kausar
		Deep Learning	Dr. Imran Siddiqi

Action by: HoD CE, IC

Item 9.18 Appointment of Examiners for PhD Proposal Defense - CE Department, IC

Discussion

51. HoD CE, IC presented the case of Syed M. Usman (01-281182-002) who is enrolled in the PhD (CE) program and is expected to complete his course work by the end of June 2019. FRC was requested to appoint a panel of examiners to conduct the proposal defense of the candidate subject to clearance of course work and passing of comprehensive exam.

Decision

52. FRC observed that a conditional approval for examiners of comprehensive exam has already been given (subject to passing the course work). A subsequent conditional approval of panel to conduct the proposal defense, hence, cannot be granted. The agenda item was therefore dropped.

Action by: NIL

Item 9.19 Appointment of Examiners for MS Thesis Defense – CS Department, IC

Discussion

53. HoD CS, IC, presented the cases of the following 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 listed candidates.

SNo.	Name	Program	Thesis Title	Supervisor	Co-Supervisor
1.	MUHAMMAD ASHRAF (01-243161-014)	MS (CS)	IOT Based Energy Efficient Transmission System in WBAN	Dr Shahzad Hassan	--
2.	SHAHBAZ ALI (01-243162-022)	MS (CS)	SD-IoT: 5G enabled software defined internet of things for Big Data Applications	Dr Awais Ahmad	--
3.	M HASSAN ZAIB (01-243171-007)	MS (CS)	Hybrid Supervised Learning for IDS Using ANN and SVM	Dr Faisal Bashir	Dr Sumaira Kausar
4.	SIKANDAR (01-243171-014)	MS (CS)	A Text Formalization based Approach for Improved Query Response	Dr Arif-Ur-Rehman	--
5.	MOHSIN RAZA (01-243171-021)	MS (CS)	Sclera Segmentation using Fully Convolutional Neural Networks	Dr Shehzad Khalid	--
6.	AAMIR FAYYAZ (01-243172-001)	MS (CS)	3D Vectorization and Generation using Generative Adversarial Networks	Dr Sumaira Kausar	--
7.	ATIYA (01-243172-004)	MS (CS)	Identification of crime scene Shoe Imprints using Deep Learning Techniques	Dr Imran Siddiqi	--
8.	MAHA BUTT (01-243172-010)	MS (CS)	Semantic Similarity of Trademark cases using Ontological Structure	Dr Asfand-e-yar	--
9.	MEHWISH KIRAN (01-243172-011)	MS (CS)	ECG-Based Arrhythmia Classification Using Convolution Neural Network	Dr Awais Ahmad	--
10.	MOHEEN AZHAR (01-243172-012)	MS (CS)	Denoising Remote Sensing Satellite Images Based on Deep Convolutional Neural Networks	Dr Awais Ahmad	--
11.	MUHAMMAD ARSALAN (01-243172-015)	MS (CS)	Theoretical Evaluation of Artificial Intelligence Frameworks	Dr Asfand-e-yar	--
12.	MUHAMMAD HASSAN ABBAS (01-243172-019)	MS (CS)	Identification of Author-Based on Semantics and Syntactic Features	Dr Asfand-e-yar	--
13.	MUHAMMAD NOUMAN NOOR (01-243172-020)	MS (CS)	Automation Testing Suitability Checking for Software Projects	Dr Tamim Ahmed Khan	--



14.	NAUMAN ASLAM (01-243172-024)	MS (CS)	Road Surface Analysis and Classification Using Smartphones	Dr Shujjaat Khan	--
15.	SADAF SHAHID (01-243172-026)	MS (CS)	Legal Text Document (i.e. Trademark Ordinance) Categorization using Ontology	Dr Asfand-e-yar	--
16.	SANA EJAZ HASHMI (01-243172-027)	MS (CS)	Highlight Generation of Sports Videos: A Case Study on Cricket	Dr Imran Siddiqi	--
17.	SH MUHAMMAD MOGHEES IDREES (01-243172-028)	MS (CS)	Cluster-Based Data Communication Process under Infrequent and Dense Traffic Condition for Internet of Vehicles	Dr Kashif Naseer	--
18.	SHAHBAZ HASSAN (01-243172-029)	MS (CS)	Handwriting Recognition for Cursive Scripts: A Case Study on Urdu Text	Dr Imran Siddiqi	--
19.	SHANZA EJAZ (01-243172-030)	MS (CS)	Semantic Video Summarization	Dr Imran Siddiqi	--
20.	SUMMIA TAJ (01-243172-031)	MS (CS)	Hybrid VITS: Real Time Re-planning and Information Dissemination Mechanism in Urban Scenario	Dr Awais Ahmad	--
21.	SYED ABDUL BASIT (01-243172-032)	MS (CS)	Nuclei Spotting using Deep Learning	Dr Samabia Tehsin	--
22.	UNIZA ASAD (01-243172-034)	MS (CS)	Biosensor Based Thyroid Detection Model Using Support Vector Machine and Decision Tree	Dr Awais Ahmad	--
23.	AHSAN IQBAL (01-243172-038)	MS (CS)	Stegosploit Image Detection using Convolutional Neural Network	Dr Samabia Tehsin	--
24.	MUHAMMAD TAIMUR ZAHID (01-243172-042)	MS (CS)	Secure Beacons for Convoy Management in VANETs	Dr Faisal Bashir	--
25.	HAIDER ALI KHAN (01-243172-043)	MS (CS)	Facial Forgery Detection	Dr Samabia Tehsin	--
26.	MOAZ AHMED (01-243172-044)	MS (CS)	A Data Analysis based Approach for Distributed Intrusion Detection in Software Defined Network	Dr Arif-Ur-Rehman	Dr Moneeb Gohar
27.	AAQIB MEHRAN (01-243172-045)	MS (CS)	Ship Detection in Satellite Images	Dr Samabia Tehsin	--
28.	HAFIZA GHAZAL SHAHID (01-243172-048)	MS (CS)	Emotional State Prediction Through Handwriting Analysis	Dr Imran Siddiqi	--
29.	SIKANDAR HAYAT (01-243172-049)	MS (CS)	Image Based Plant Disease Detection-A Deep Learning Approach	Dr Sumaira Kausar	--
30.	FAROOQ UL ISLAM (01-245171-002)	MS (TELECOM-NW)	Enhanced Geographical based Routing Protocol for	Dr Kashif Naseer	--



			Vehicular Ad-hoc Networks (VANETs)		
31.	MUHAMMAD AHMED (01-245171-006)	MS (TELECOM-NW)	An Enhanced Intersection based Geographical Routing Protocol for VANET	Dr Kashif Naseer	--
32.	MUHAMMAD IBRAHIM (01-245171-008)	MS (TELECOM-NW)	Energy Aware Routing Protocol For WBANs	Dr Kashif Naseer	--
33.	MUHAMMAD KAMRAN (01-245171-009)	MS (TELECOM-NW)	Software-defined Networking approach for enhanced evolved packet core using proxy mobile IPV6	Dr Moneeb Gohar	--
34.	AMAD TALAT (01-245172-002)	MS (TELECOM-NW)	Packet Capturing for high speed Networks	Dr Faisal Bashir	--
35.	SHAHRIKH ALI KHAN (01-245172-010)	MS (TELECOM-NW)	SDN Based Mobile Packet Core for 5G Using TRILL	Dr Moneeb Gohar	--
36.	ANUM HASAN (01-247172-002)	MS (IS)	Spatial Pyramid Pooling Models in Deep Convolutional Network for Malware Detection	Dr Sumaira Kausar	--
37.	ROSHEEN QAZI (01-247172-018)	MS (IS)	Retention Preservation Protocol for Tranquil Communication in WSNs	Dr Kashif Naseer	--
38.	TALHA AZHAR (01-247172-021)	MS (IS)	Labeling of Malware Files Using Clustering	Dr Sumaira Kausar	Dr Faisal Bashir
39.	FAISAL AJAIB KAYANI (01-247172-023)	MS (IS)	Interoperability and security for data authentication scheme _ for body area network	Dr Kashif Naseer	--
40.	ABRAR AHMED (01-247172-031)	MS (IS)	Clustering of Malwares based on static features using Empirical Analysis	Dr Faisal Bashir	Dr Sumaira Kausar
41.	ALI RAZA (01-248172-001)	MS (MATHEMATICS)	Dual Nature study of connective heat transfer of Nanofluid along a shrinking surface in the presence of thermal radiation	Dr Rizwan-UI-Haq	--
42.	ASMA LIAQUET (01-248172-002)	MS (MATHEMATICS)	Upshot of Generalized Fourier's and Fick's laws on MHD Williamson Nanofluid flow past a Bi-Directional Stretched -Surface with second order slip and double Stratification	Dr Ramzan	--
43.	ASMA MUBEEN (01-248172-003)	MS (MATHEMATICS)	Chemical reaction in two-phase flow of viscous casson fluids in a rotating channel	Dr Jafar Hasnain	--
44.	HABIB UN NISA (01-248172-004)	MS (MATHEMATICS)	Bioconvective MHD Micropolar Nanofluid Flow with Nonlinear Thermal Radiation and Joule Heating	Dr Ramzan	--



			effects in a Stratified Medium		
45.	HINA GHIA SATTI (01-248172-005)	MS (MATHEMATICS)	Oscillatory flow of a dusty fluid in a channel with slip condition	Dr Jafar Hasnain	--
46.	MUHAMMAD SAJID (01-248172-006)	MS (MATHEMATICS)	Heat Transfer Analysis of a Ferrofluid in a micro annulus	Dr Jafar Hasnain	--
47.	NAZIA SHAHMIR (01-248172-007)	MS (MATHEMATICS)	Radiative 3D Powell Eyring Nanofluid Flow with Darcy-Forchheimer effect Past Nonlinear Stretched Surface	Dr Ramzan	--
48.	SAIQA GOHAR (01-248172-008)	MS (MATHEMATICS)	Analysis of Nanofluid Flow with unequal diffusivities of H-H reactions over a Stretching/shrinking Cylinder	Dr Jafar Hasnain	--
49.	SANIA NASEER (01-248172-009)	MS (MATHEMATICS)	Effects of Chemical Species and Nonlinear thermal radiation on 3D Maxwell nanofluid flow with double stratification	Dr Ramzan	--
50.	SEEMA AHSAN (01-248172-010)	MS (MATHEMATICS)	Study of Couette-Poiseuille flow of Kerosene based ferrofluid in a rotating channel	Dr Jafar Hasnain	--
51.	SYED HAMMAD SHAH (01-248172-011)	MS (MATHEMATICS)	KKL correlation for Nanofluid flow and heat transfer in a rotating vertical channel with permeable surface	Dr Rizwan-UI-Haq	--
52.	UMAR ALI SHAH (01-248172-012)	MS (MATHEMATICS)	Analysis of heat and mass transfer for Casson fluid along a moving sheet in the presence of thermal radiation and suction/injection effects	Dr Rizwan-UI-Haq	--
53.	SALMA BATOOL (01-248172-013)	MS (MATHEMATICS)	Analysis of Nanofluid flow due to trapping along a porous annulus with cilia in the presence of thermal radiation	Dr Rizwan-UI-Haq	--
54.	ADEELA MUBEEN (01-248172-014)	MS (MATHEMATICS)	Peristaltic flow of blood based SWCNTs along a vertical porous annulus with viscous dissipation effect	Dr Rizwan-UI-Haq	--
55.	Ayesha Waseem (01-243171-018)	MS (CS)	Self-tuned Ramp Loss K-Support Vector Classification-Regression	Dr Muhammad Muzammil	

**Decision**

54. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

SNo.	Name	Thesis Title	Internal	External
1.	MUHAMMAD ASHRAF (01-243161-014)	IOT Based Energy Efficient Transmission System in WBAN	Dr. Moneeb Gohar	Dr. Rizwan Ahmed, SEECS
2.	SHAHBAZ ALI (01-243162-022)	SD-IoT: 5G enabled software defined internet of things for Big Data Applications	Dr. Ibrahim Tariq	Dr. Majid Iqbal, CIIT
3.	M HASSAN ZAIB (01-243171-007)	Hybrid Supervised Learning for IDS Using ANN and SVM	Dr. Awais Ahmed	Dr. Zahid Halim, GIKI
4.	SIKANDAR (01-243171-014)	A Text Formalization based Approach for Improved Query Response	Dr. Muhammad Muzammil	Dr. Zahid Halim, GIKI
5.	MOHSIN RAZA (01-243171-021)	Sclera Segmentation using Fully Convolutional Neural Networks	Dr. Samabia Tehsin	Dr. Farhan Riaz, CEME
6.	AAMIR FAYYAZ (01-243172-001)	3D Vectorization and Generation using Generative Adversarial Networks	Dr. Imran Siddiqi	Dr. Arsalan Shaukat, CEME
7.	ATIYA (01-243172-004)	Identification of crime scene Shoe Imprints using Deep Learning Techniques	Dr. Sumaira Kausar	Dr. Naveed Ejaz, Iqra Univ.
8.	MAHA BUTT (01-243172-010)	Semantic Similarity of Trademark cases using Ontological Structure	Dr. Sabina Akhtar	Dr. Hammad Afzal, MCS
9.	MEHWISH KIRAN (01-243172-011)	ECG-Based Arrhythmia Classification Using Convolution Neural Network	Dr. Sumaira Kausar	Dr. Waseem Shahzad, NU
10.	MOHEEN AZHAR (01-243172-012)	Denoising Remote Sensing Satellite Images Based on Deep Convolutional Neural Networks	Dr. Imran Siddiqi	Dr. Ayyaz Hussain, IIUI
11.	MUHAMMAD ARSALAN (01-243172-015)	Theoretical Evaluation of Artificial Intelligence Frameworks	Dr. Muhammad Muzammil	Dr. Rashid Ahmed, CIIT Attock
12.	MUHAMMAD HASSAN ABBAS (01-243172-019)	Identification of Author-Based on Semantics and Syntactic Features	Dr. Sabina Akhtar	Dr. Mansoor Ahmed, CIIT
13.	MUHAMMAD NOUMAN NOOR (01-243172-020)	Automation Testing Suitability Checking for Software Projects	Dr. Muhammad Muzammil	Dr. Waseem Shahzad, NU
14.	NAUMAN ASLAM (01-243172-024)	Road Surface Analysis and Classification Using Smartphones	Dr. Awais Ahmed	Dr. Ali Imran Najam, NESCOM
15.	SADAF SHAHID (01-243172-026)	Legal Text Document (i.e. Trademark Ordinance) Categorization using Ontology	Dr. Sabina Akhtar	Dr. Mansoor Ahmed, CIIT
16.	SANA EJAZ HASHMI (01-243172-027)	Highlight Generation of Sports Videos: A Case Study on Cricket	Dr. Samabia Tehsin	Dr. Imran Malik, SEECS



17.	SH MUHAMMAD MOGHEES IDREES (01-243172-028)	Cluster-Based Data Communication Process under Infrequent and Dense Traffic Condition for Internet of Vehicles	Dr. Ibrahim Tariq	Dr. Saleem Iqbal, PMAS
18.	SHAHBAZ HASSAN (01-243172-029)	Handwriting Recognition for Cursive Scripts: A Case Study on Urdu Text	Dr. Samabia Tehsin	Dr. Khurram Khurshid, IST
19.	SHANZA EJAZ (01-243172-030)	Semantic Video Summarization	Dr. Amna Jameel	Dr. Usman Akram, CEME
20.	SUMMIA TAJ (01-243172-031)	Hybrid VITS: Real Time Re-planning and Information Dissemination Mechanism in Urban Scenario	Dr. Arif ur Rehman	Dr. Waseem Shahzad, NU
21.	SYED ABDUL BASIT (01-243172-032)	Nuclei Spotting using Deep Learning	Dr. Imran Siddiqi	Dr. Farhan Riaz, CEME
22.	UNIZA ASAD (01-243172-034)	Biosensor Based Thyroid Detection Model Using Support Vector Machine and Decision Tree	Dr. Asfand e Yar	Dr. Tassawar Iqbal, Comsats Wah
23.	AHSAN IQBAL (01-243172-038)	Stegosploit Image Detection using Convolutional Neural Network	Dr. Shahzad Khalid	Dr. Khurram Khurshid, IST
24.	MUHAMMAD TAIMUR ZAHID (01-243172-042)	Secure Beaconing for Convoy Management in VANETs	Dr. M. Najam- ul-Islam	Dr. Moazzam Khattak, SEECs
25.	HAIDER ALI KHAN (01-243172-043)	Facial Forgery Detection	Dr. Amna Jameel	Dr. Abdul Basit, PINSTECH
26.	MOAZ AHMED (01-243172-044)	A Data Analysis based Approach for Distributed Intrusion Detection in Software Defined Network	Dr. Kashif Naseer	Dr. Abid Khan, CIIT
27.	AAQIB MEHRAN (01-243172-045)	Ship Detection in Satellite Images	Dr. Imran Siddiqi	Dr. Ayyaz Hussain, IIUI
28.	HAFIZA GHAZAL SHAHID (01-243172-048)	Emotional State Prediction Through Handwriting Analysis	Dr. Asfand e Yar	Dr. Abdul Basit, PINSTECH
29.	SIKANDAR HAYAT (01-243172-049)	Image Based Plant Disease Detection-A Deep Learning Approach	Dr. Imran Siddiqi	Dr. Ayyaz Hussain, IIUI
30.	FAROOQ UL ISLAM (01-245171-002)	Enhanced Geographical based Routing Protocol for Vehicular Ad- hoc Networks (VANETs)	Dr. Faisal Bashir	Dr. Moazzam Khattak, SEECs
31.	MUHAMMAD AHMED (01-245171-006)	An Enhanced Intersection based Geographical Routing Protocol for VANET	Dr. Moneeb Gohar	Dr. Saleem Iqbal, PMAS
32.	MUHAMMAD IBRAHIM (01-245171-008)	Energy Aware Routing Protocol For WBANs	Dr. Asfand e Yar	Dr. Khalid Awan, CIIT Attock
33.	MUHAMMAD KAMRAN (01-245171-009)	Software-defined Networking approach for enhanced evolved packet core using proxy mobile IPV6	Dr. Ibrahim Tariq	Dr. Ali Imran Najam, NESCOM
34.	AMAD TALAT (01-245172-002)	Packet Capturing for high speed Networks	Dr. Moneeb Gohar	Dr. Rizwan Ahmed, SEECs



35.	SHAHRUKH ALI KHAN (01-245172-010)	SDN Based Mobile Packet Core for 5G Using TRILL	Dr. Najam ul Islam	Dr. Rizwan Ahmed, SEECS
36.	ANUM HASAN (01-247172-002)	Spatial Pyramid Pooling Models in Deep Convolutional Network for Malware Detection	Dr. Kashif Naseer	Dr. Waseem Shahzad, NU
37.	ROSHEEN QAZI (01-247172-018)	Retention Preservation Protocol for Tranquil Communication in WSNs	Dr. Moneeb Gohar	Dr. Saleem Iqbal, PMAS
38.	TALHA AZHAR (01-247172-021)	Labeling of Malware Files Using Clustering	Dr. Ibrahim Tariq	Dr. Mansoor Ahmed, CIIT
39.	FAISAL AJAIB KAYANI (01-247172-023)	Interoperability and security for data authentication scheme _ for body area network	Dr. Moneeb Gohar	Dr. Abid Khan, CIIT
40.	ABRAR AHMED (01-247172-031)	Clustering of Malwares based on static features using Empirical Analysis	Dr. Muhammad Muzammil	Dr. Zahid Halim, GIKI
41.	ALI RAZA (01-248172-001)	Dual Nature study of connective heat transfer of Nanofluid along a shrinking surface in the presence of thermal radiation	Dr. Jafar Husnain	Dr. Sohail Nadeem, QAU
42.	ASMA LIAQUET (01-248172-002)	Upshot of Generalized Fourier's and Fick's laws on MHD Williamson Nanofluid flow past a Bi-Directional Stretched -Surface with second order slip and double Stratification	Dr. Rizwan ul Haq	Dr. Amer Bilal Mann, Urdu University
43.	ASMA MUBEEN (01-248172-003)	Chemical reaction in two-phase flow of viscous casson fluids in a rotating channel	Dr. Muhammad Ramzan	Dr. Tariq Javed, IIUI
44.	HABIB UN NISA (01-248172-004)	Bioconvective MHD Micropolar Nanofluid Flow with Nonlinear Thermal Radiation and Joule Heating effects in a Stratified Medium	Dr. Rizwan ul Haq	Dr. Muhammad Bilal Ashraf, Comsats Wah
45.	HINA GHIA SATTI (01-248172-005)	Oscillatory flow of a dusty fluid in a channel with slip condition	Dr. Muhammad Ramzan	Dr. Nasir Ali, IIUI
46.	MUHAMMAD SAJID (01-248172-006)	Heat Transfer Analysis of a Ferrofluid in a micro annulus	Dr. Rizwan ul Haq	Dr. Tariq Javed, IIUI
47.	NAZIA SHAHMIR (01-248172-007)	Radiative 3D Powell Eyring Nanofluid Flow with Darcy-Forchheimer effect Past Nonlinear Stretched Surface	Dr. Jafar Husnain	Dr. Muhammad Nawaz, IST
48.	SAIQA GOHAR (01-248172-008)	Analysis of Nanofluid Flow with unequal diffusivities of H-H reactions over a Stretching/shrinking Cylinder	Dr. Muhammad Ramzan	Dr. Mariam Sheikh, University of Sialkot
49.	SANIA NASEER (01-248172-009)	Effects of Chemical Species and Nonlinear thermal radiation on 3D Maxwell nanofluid flow with double stratification	Dr. Rizwan ul Haq	Dr. Sohail Nadeem, QAU
50.	SEEMA AHSAN (01-248172-010)	Study of Couette-Poiseuille flow of Kerosene based ferrofluid in a rotating channel	Dr. Rizwan ul Haq	Dr. Mariam Sheikh, University of Sialkot



51.	SYED HAMMAD SHAH (01-248172-011)	KKL correlation for Nanofluid flow and heat transfer in a rotating vertical channel with permeable surface	Dr Jafar Hasnain	Dr. Fahad Munir Abbasi, CIIT
52.	UMAR ALI SHAH (01-248172-012)	Analysis of heat and mass transfer for Casson fluid along a moving sheet in the presence of thermal radiation and suction/injection effects	Dr. Muhammad Ramzan	Dr. Rashid Mehmood, HITEC
53.	SALMA BATOOL (01-248172-013)	Analysis of Nanofluid flow due to trapping along a porous annulus with cilia in the presence of thermal radiation	Dr Jafar Hasnain	Dr. Noreen Sher Akbar, CEME
54.	ADEELA MUBEEN (01-248172-014)	Peristaltic flow of blood based SWCNTs along a vertical porous annulus with viscous dissipation effect	Dr. Muhammad Ramzan	Dr. Shagufta Ijaz. HITEC
55.	Ayesha Waseem (01-243171-018)	Self-tuned Ramp Loss K-Support Vector Classification-Regression	Dr. Samabia Tehsin	Dr. Abdul Basit, PINSTECH
56.	Muhammad Tehseen Tahir (01-243171-029)	User Identification in Blockchain by Spatio-Temporal Fingerprints	Dr. M. Asfand-e-Yar	Dr. Hammad Majeed

Action by: HoD CS, IC

Item 9.20 Change of Supervisor: PhD Candidate – CS Department, IC

Discussion

55. Ms. Aliya Amir (01-284162-003) is enrolled in the PhD (CS) program and was working under the supervision of Dr. Muhammad Muzammal. She passed the PhD comprehensive exam in August 2018 and is presently finalizing her research proposal.
56. The candidate has changed her research theme from Natural Language Processing to Digital Image Processing and, has requested to appoint Dr. Amina Jameel as her new supervisor. Dr. Muhammad Muzammil has recommended the change and Dr. Amina Jameel has accepted to supervise the candidate. FRC was requested to approve the change of supervisor for Ms. Aliya Amir.

Decision

57. FRC approved the appointment of Dr. Amina Jameel as the principal supervisor of PhD (CS) candidate Ms. Aliya Amir (01-284162-003). Department to ensure that the proposal defense of the candidate is carried out respecting the timelines in accordance with the PhD Rules.

Action by: HoD CS, IC



Item 9.21 Appointment of Examiners for PhD Proposal Defense – CS Department, IC

Discussion

58. HoD CS, IC presented the cases of the following PhD candidates who have cleared their comprehensive exams in August 2018. The examiners for the PhD proposal defence of the mentioned candidates were appointed in the 7th meeting of the FRC-ES. The scholars have changed their research themes since then and hence appointment of fresh examination panels was requested. Salient details of the candidates are summarized in the following.

SNo.	Name	Former Research topic	New Research topic
1.	Aliya Amir (01-284162-003)	Transfer learning in NLP	Gait recognition under covariate factors
2	Rizwan Aamir (01-284171-001)	Curation, Management and Analysis of Big Data	A generic answer selection model using deep learning

59. Ms. Shahela Saif and Ms. Saneeha Khalid have cleared their comprehensive examination in March 2019 and ready to appear for the PhD Proposal Defence. The particulars of the candidates are summarized as follows.

SNo.	Name	Supervisor	Result Notification Date	Research Topic
1	Shahela Saif (01-284181-002)	Dr. Samabia Tehsin	20-03-19	Video Forgery Detection
2	Saneeha Khalid (01-284172-002)	Dr. Faisal Bashir	20-03-19	Intrusion detection in IoT Networks

60. FRC was requested to appoint panels of examiners to conduct the PhD proposal defense of the listed candidates.

Decision

61. On recommendation of the DRC, FRC appointed the following panels of examiners to conduct the PhD Proposal Defense of the listed candidates. Department must ensure that the proposal defense presentations are carried out within the time frame in accordance with the PhD Rules.



S No.	Name (Enrolment #)	Program	Research Title	Internal Examiner	External Examiners
1	Aliya Amir (01-284162-003)	PhD (CS)	Gait recognition under covariate factors	Dr. Imran Siddiqi	Dr. Abdul Basit, PINSTECH Dr. Farhan Riaz, CEME
2	Rizwan Aamir (01-284171-001)	PhD (CS)	A generic answer selection model using deep learning	Dr. Muhammad Muzammal	Dr. Ayyaz Hussain, IIUI Dr. Zahid Halim, GIKI
3	Shahela Saif (01-284181-002)	PhD (CS)	Video Forgery Detection	Dr. Imran Siddiqi	Dr. Khurram Khurshid, IST Dr. Naveed Ijaz, Iqra Univ.
4	Saneeha Khalid (01-284172-002)	PhD (CS)	Intrusion detection in IoT Networks	Dr. Sumaira Kausar	Dr. Mureed Hussain, NESCOM Dr. Rizwan Ahmed, SEECs

Action by: HoD CS, IC

Item 9.22 Appointment of Examiners for PhD Comprehensive Exam – CS Department, IC

Discussion

62. HoD CS, IC presented the cases of the following PhD scholars who are completing the course work in Spring 2019 semester and will appear in the PhD comprehensive exam in August 2019.

S#	Student Name	Research Title	Supervisor
1	ROMANA TALAT (01-284181-001)	Graph Embedding and summarization in social network	Dr. Muhammad Muzammil
2	MUHAMMAD WASEEM (01-284172-001)	Preventive Healthcare Using Big Data “Early Detection of Kidney Failure”	Dr. Muhammad Muzammil
3	MEER MUHAMMAD KHAN JALBANI (01-284181-003)	Cluster Head Election Approach with Multiple Metrics for Enhancing Network Performance for VAN Nets	Dr. Moneeb Gohar
4	NAILA SHAHEEN (01-283181-001)	Nano Fluids with Chemical Reactions	Dr. Muhammad Ramzan
5	SAIMA RIASAT (01-283181-002)	Flow due to Rotating Disks	Dr. Muhammad Ramzan
6	SYED SAQIB SHAH (01-283181-003)	CFD Approach for Cavity Models	Dr. Rizwan ul Haq



63. FRC was requested to approve relevant subjects and appoint appropriate examiners for the PhD Comprehensive Exam of the listed candidates (subject to passing the course work).

Decision

64. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of the listed candidates.

S#	Student Name	Research Title	Course	Examiner
1	ROMANA TALAT (01-284181-001)	Graph Embedding and summarization in social network	Advanced Natural Language Processing	Dr. Muhammad Asfand e yar
			Advance Artificial Intelligence	Dr. Sumaira Kausar
			Advanced Data Mining	Dr. Muhammad Muzammil
			Deep Learning	Dr. Imran Siddiqi
2	MUHAMMAD WASEEM (01-284172-001)	Preventive Healthcare Using Big Data “Early Detection of Kidney Failure”	Advanced Data Mining	Dr. Muhammad Muzammil
			Advanced Natural Language Processing	Dr. Muhammad Asfand e yar
			Advance Artificial Intelligence	Dr. Sumaira Kausar
			Ontology Engineering	Dr. Muhammad Asfand e yar
3	MEER MUHAMMAD KHAN JALBANI (01-284181-003)	Cluster Head Election Approach with Multiple Metrics for Enhancing Network Performance for VAN Nets	Network Performance Evaluation	Dr. Faisal Bashir
			Computer and Network Forensics	Dr. Kashif Naseer
			Information Security Management	Dr. Nazir Ahmed Malik
			Advanced Computer Networks	Dr. Moneeb Gohar
4	NAILA SHAHEEN (01-283181-001)	Nano Fluids with Chemical Reactions	Advanced Partial Differential Equations	Dr. Muhammad Ramzan
			Fluid Dynamics-II	Dr. Jafar Husnain
			Non-Newtonian Fluid	Dr. Jafar Husnain



			Numerical Solution of Partial differential Equations	Dr. Rizwan ul Haq
5	SAIMA RIASAT (01-283181-002)	Flow due to Rotating Disks	Fluid Dynamics-II	Dr. Jafar Husnain
			Advanced Partial Differential Equations	Dr. Muhammad Ramzan
			Non-Newtonian Fluid	Dr. Jafar Husnain
			Numerical Solution of Partial differential Equations	Dr. Rizwan ul Haq
6	SYED SAQIB SHAH (01-283181-003)	CFD Approach for Cavity Models	Fluid Dynamics-II	Dr. Jafar Husnain
			Advanced Partial Differential Equations	Dr. Muhammad Ramzan
			Non-Newtonian Fluid	Dr. Jafar Husnain
			Numerical Solution of Partial differential Equations	Dr. Rizwan ul Haq

Action by: HoD CS, IC

Item 9.23 Appointment of Supervisor and Advisory Committee: PhD Candidate – CS Department, IC

Discussion

65. Ms. Tabinda Sajjad (01-283191-001) secured admission in the PhD (Mathematics) program in the Spring 2019 intake. FRC was requested to appoint supervisor and advisory committee for the candidate.

Decision

66. On recommendation of DRC, FRC approved the following appointments for PhD candidate Ms. Tabinda Sajjad (01-283191-001).

SNo.	Name (Enrollment #)	Program	Research Area	Supervisor	Advisory Committee
1	Tabinda Sajjad (01-283191-001)	PhD (Maths)	Fluid Dynamics	Dr. Rizwan ul Haq	Dr. Rizwan ul Haq



					Dr. Muhammad Ramzan Dr. Sohail Nadeem, QAU (External)
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Action by: HoD CS, IC

Item 9.24 Drop from PhD (CS) Program – CS Department, IC

Discussion

67. HoD CS, IC presented the case of Mr. Bilal Haider (01-281131-005) who was admitted to the PhD (CS) program in Spring 2013. The candidate defended his PhD research proposal in Sep 2016 and was working under the supervision of Dr. Shagufta Henna. The maximum duration of PhD program for Mr. Haider completed in Fall 2018.
68. The student is not responding to the emails of his supervisor and PGP coordinator. Warning letters have also been issued to the scholar, however Mr. Haider has not put up any application for extension so far. DRC recommended that the candidate may be dropped from the PhD (CS) program.

Decision

69. In accordance with the PhD Rules, department is advised to proceed to the cancellation of admission of PhD candidate Mr. Bilal Haider (01-281131-005).

Action by: HoD CS, IC

Item 9.25 Change/approval of Co-supervisors for PhD Scholars – EES Department, IC

Discussion

70. HoD EES, IC presented the cases of the following PhD scholars who have finalized their thesis topics and will be defending their research proposals in the end of August 2019.

S#	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Aneela Khan 01-286172-002	Dr. Humera Farah	PhD Env. Sciences	The effects of climate change on cryosphere dynamics and hydrological response in the upper Indus Basin, Pakistan.
2	M. Nofal Munir 01-286172-001	Dr. Mohammad Zafar	PhD Geology	Reservoir Diagenesis and Quality Prediction of Pab Sandstone, Lower Indus Basin, Pakistan
3	Furqan Aftab 01-286172-003	Dr. Muhammad Zafar (Dr. Quaid Khan Jadoon)	PhD Geology	Reservoir Quality of Sand Facies of Sembar Formation, Lower Indus Basin, Pakistan



4	Zainab Wahab 01-286172-008	Dr. Humera Farah	PhD Env. Sciences	Effects of Urbanization on climate change (precipitation and temperature) in Islamabad City, Pakistan
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71. FRC was requested to approve the appointment/change of co-supervisors for the listed PhD candidates.

Decision

72. On recommendation of DRC, FRC approved the appointment of the following co-supervisors for the listed PhD candidates.

S#	Name (Enrolment #)	Supervisor	Co-Supervisor	Program	Thesis Title
1	Aneela Khan 01-286172-002	Dr. Humera Farah	Dr. Muhammad Azmat (AP, SCEE, NUST)	PhD Env. Sciences	The effects of climate change on cryosphere dynamics and hydrological response in the upper Indus Basin, Pakistan.
2	M. Nofal Munir 01-286172-001	Dr. Mohammad Zafar	Dr. Muhsan Ehsan (AP, BUI)	PhD Geology	Reservoir Diagenesis and Quality Prediction of Pab Sandstone, Lower Indus Basin, Pakistan
3	Furqan Aftab 01-286172-003	Dr. Mohammad Zafar	Dr. Iqbal Hajana (AP, BUI)	PhD Geology	Reservoir Quality of Sand Facies of Sembar Formation, Lower Indus Basin, Pakistan
4	Zainab Wahab 01-286172-008	Dr. Humera Farah	Dr. Abdul Waheed (SCEE, NUST)	PhD Env. Sciences	Effects of Urbanization on climate change (precipitation and temperature) in Islamabad City, Pakistan

Action by: HoD EES, IC

Item 9.26 Appointment of Examiners for PhD Proposal Defense --- E&ES Department, IC

Discussion

73. HoD EES, IC presented the cases of the following PhD scholars who will be defending their research proposals in August 2019. FRC was requested to appoint appropriate external and internal examiners to conduct the PhD proposal defense of the listed candidates.

S#	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Aneela Khan 01-286172-002	Dr. Humera Farah (Dr. Muhammad Azmat)	PhD Env. Sciences	The effects of climate change on cryosphere dynamics and hydrological response in the upper Indus Basin, Pakistan.
2	Muhammad Saqib Ali 01-286172-006	Dr. Humera Farah	PhD Env. Sciences	Impacts of Climate change on the wheat production pattern in rain-fed regions of Punjab



3	Zainab Wahab 01-286172-008	Dr. Humera Farah	PhD Env. Sciences	Effects of Urbanization on climate change (precipitation and temperature) in Islamabad City, Pakistan
4	Furqan Aftab 01-286172-003	Dr. Mohammad Zafar	PhD Geology	Reservoir Quality of Sand Facies of Sembar Formation, Lower Indus Basin, Pakistan

Decision

74. On recommendation of the DRC, FRC appointed the following panels of examiners to conduct the PhD Proposal Defense of the listed candidates. Department must ensure that the proposal defense presentations are carried out within the time frame in accordance with the PhD Rules.

S#	Name (Enrolment #)	Program	Thesis Title	Internal Examiners	External Examiners
1	Aneela Khan 01-286172-002	PhD Env. Sciences	The effects of climate change on cryosphere dynamics and hydrological response in the upper Indus Basin, Pakistan.	Dr. Aansa Rukya	Dr. M. Zia ur Rehman Hashmi (GCISC) Dr. M. Afzaal (PMD)
2	Muhammad Saqib Ali 01-286172-006	PhD Env. Sciences	Impacts of Climate change on the wheat production pattern in rain-fed regions of Punjab	Dr. Said Akbar	Dr. Sohail Yousaf (QAU) Dr. M. Afzaal (PMD)
3	Zainab Wahab 01-286172-008	PhD Env. Sciences	Effects of Urbanization on climate change (precipitation and temperature) in Islamabad City, Pakistan	Dr. Asma Jamil	Dr Athar Hussain (CIIT) Dr. M. Azmat (NUST)
4	Furqan Aftab 01-286172-003	PhD Geology	Reservoir Quality of Sand Facies of Sembar Formation, Lower Indus Basin, Pakistan	Dr. Abid Ali	Dr. Aamir Ali (QAU) Dr. Birkhez Aslam Shami (Consultant, HDIP)

Action by: HoD EES, IC

Item 9.27 Cancellation of the Candidacy of MS Student – EES Department, IC

Discussion

75. HoD EES, IC presented the case of Ms. Hajra Khanum (01-262152-035) who is enrolled in the MS (ES) program. Supervisor of the candidate has submitted three unsatisfactory progress reports stating that the student is not in contact after 25th September 2018. DRC has recommended cancellation of candidacy dropping the student from the MS ES program.



Decision

76. On recommendation of DRC and in accordance with paras 25.2 and 24.7.2 of MS/MPhil Rules, FRC approved the cancelation of admission of Ms. Hajra Khanum (01-262152-035). Subsequent processing to be carried out as outlined in the listed paras of MS/MPhil Rules.

Action by: HoD EES, IC

Item 9.28 Change of Supervisor and/or Research Topics of MS Environmental Sciences

Student – EES Department, IC

Discussion

77. HoD EES, IC informed the house that Mr. Khubaib, Assistant Professor, at the department of E & ES, was supervising a number of MS research students. Mr. Khubaib has been relieved by the Bahria University and is no longer able to supervise these students. Consequently, alternate supervisors/topics were given to the affected students by the department. FRC was requested to approve the revised appointments/research topics of the concerned candidates.

Decision

78. On recommendation of DRC, FRC approved the following appointments/research topics for the listed candidates.

SNo.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Saiqa tul Kubra 01-262171-021	Asif Javed	MS ES	Assessment and Spatial clustering of road accident on Rawalpindi Pakistan
2	Humna Rasool 01-262172-044	Asif Javed	MS ES	Investigation of Smog events over Lahore and adjoining areas during 2012-2017.
3	Hafiza Unfal Jamil 01-263172-003	Dr. Said Akbar	MS EPM	Ground water resource estimation by using Visual MODFLOW: A case study of Islamabad, Pakistan
4	Muhammad Umer 01-263172-006	Asif Javed	MS EPM	Assessment of Green House gas (GHG) emission from brick kiln industry of Islamabad, Pakistan
5	Fazal Masood (01-262172-027	Dr. Said Akbar	MS ES	Drinking Water Quality Assessment from selected sources of Namli Maira, Abbottabad, Pakistan.

Action by: HoD EES, IC

Item 9.29 Appointment of Examiners for MS Thesis Defense – EES Department, IC

Discussion

79. HoD EES, IC presented the cases of the following MS students who will be completing their research work and defending their thesis in Fall 2019. FRC was requested to appoint appropriate internal and external examiners for the listed candidates.

S#	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Anis Sabir 01-262181-001	Dr. Nohseen Sahir (Dr. Shabeer Ahmad)	MS GEO	Petrophysical and structural analysis for the assessment of facies distribution within Lower Goru associated with failed rift, Badin block, Southern Indus Basin, Pakistan
2	Basit Ali 01-262181-002	Mr. Mumtaz Ali Khan	MS GEO	Microfacies analysis and mechanical properties of Margalla Limestone, Shah Alla Ditta area, Islamabad.
3	Faysal Ahmad 01-262181-003	Mr. Tausif Ahmad	MS GEO	Structural Analysis of the subsurface geometries and their impact on the petrophysical properties of the reservoir in Gujjar Khan area, Eastern Potwar Basin, Pakistan
4	Muhammad Abbas Qamar 01-262181-005	Prof. Dr. M. Zafar (Mr. Muhammad Awais)	MS GEO	Investigation of deposition and diagenetic fabric and reservoir properties of Hangu formation.
5	Muhammad Ahsan Ali 01-262181-006	Prof. Dr. Tahseenullah Khan	MS GEO	Analysis Of Shale Gas Potential In Sembar And Ranikot Formations In The Punjab Platform, Central Indus Basin, Pakistan.
6	Muhammad Luqman 01-262181-008	Mr. Masood Anwar (Dr. Waqas Ahmad)	MS GEO	Petrography and Physico mechanical properties of Nowshera formation, Panjpir area, Swabi.
7	Muhammad Nigar 01-262181-009	Dr. Muhammad Zafar	MS GEO	Reservoir Evaluation of Eocene Sequences in selected wells of Potwar Sub Basin, Pakistan.
8	Muhammad Younas 01-262181-010	Dr. Nohseen Sahir	MS GEO	Reservoir Characterization and correlation in selected wells of Thal block and Shakardara Area Kohat sub basin
9	Muhammad Zeeshan Shahid 01-262181-011	Mr. Saqib Mehmood	MS GEO	Assessment of Reservoir Quality on the basis of Petrophysical and Geomechanical Properties of selected wells, Southern Indus Basin, Pakistan
10	Sheikh Hamza 01-262181-012	Dr. Nohseen Sahir (Mr. Nazeer Ahmad)	MS GEO	Petrographical and geotechnical analysis of lightweight aggregate of Taunsa Sharif.
11	Zohaib Afridi 01-262181-015	Dr. Tahseenullah Khan (Dr. Asghar Ali)	MS GEO	Petrogenetic study of metallic and non-metallic minerals in Jamrud area, Khyber district, KP, Pakistan.
12	Asrar Hussain 01-262181-027	Dr. Muhsan Ehsan (M. Faizan Ahmad) (BNB)	MS GEO	Groundwater mapping and budgeting of site area, District West Karachi, Sindh, Pakistan



13	Salman Shah 01-262181-022	Dr. Aansa Rukya Saleem	MS ES	Impact of Cement industry on Air Quality of Surrounding Areas, A Case Study of Sheikh Badin National Park and Darrra Pezu.
14	Maria Rasool 01-262181-019	Syed Umair Ullah Jamil	MS ES	Purification and Characterization of Extracellular Lipase Produced by Bacterial Strain Isolated from Oil Contaminated Soil
15	Ahtesham Tariq 01-262181-016	Syed Umair Ullah Jamil	MS ES	Bioaccumulation of selected heavy metals by bacteria strains Isolated from waste water effluent of Pakistan re-rolling steel mill (Sector I-9 Islamabad)
16	Ammad Zaheer 01-262181-017	Dr. Said Akbar Khan (Dr. Hifsa Rashid)	MS ES	Assessment of physicochemical and heavy metals concentrations in selected Dams of Pakistan
17	Umer Nawaz 01-262181-025	Dr. Asma Jamil (Dr. Zia ur Rehman)	MS ES	Biosorption of selected heavy metals through algal biomass chlorella vulgaris
18	Muhammad Arham Khan 01-262172-029	Dr. Said Akbar Khan	MS ES	Comparative study of Environmental performance of steel industries in I-9 area of Islamabad to evaluate effectiveness of environmental management plan
19	Sumbal Riaz 01-262172-036	Syed Umair Ullah Jamil	MS ES	Process Based Assessment of Nanoparticles and Microorganisms in Indoor Work Environments of Premium Leather Industry, Lahore
20	Samra Altaf 01-262181-023	Dr. Asma Jamil	MS ES	To determine the potential of microalgae C. vulgaris for the removal of pesticide chloropyrifos
21	Nuzhat Rashid	Dr. Humera Farah (Dr. Asad Waqar)	MS ES	Comparative analysis and simulation and solar PV vs conventional electricity consumption in an institutional building.
22	Abdul Muqeet 01-262171-023	Fiza Sarwar	MS ES	Ergonomics Risk Assessment in Manual Works at Steel Goods Manufacturing unit, Rawalpindi Pakistan
23	Urva Hanif 01-262172-045	Dr. Humera Farah	MS ES	Analysis of Seasonal Climate variability and Future Projection by Using CCSM4 Model for Metropolitan City of Islamabad, Pakistan
24	Abdul Haseeb Abbasi 01-262172-042	Dr. M. Fahad Mehmood	MS Geophysics	3D seismic interpretation and reservoir characterization using seismic inversion techniques and AVO modelling of Gambat Area Southern Indus Basin Pakistan
25	Fahad Ismail Abbasi 01-262172-018	Dr. M. Iqbal Hajana	MS Geophysics	Reservoir Modeling of Lockhart Formation, Manzalai Field, Kohat sub Basin, Pakistan
26	Abbas Raza 01-262162-001	Dr. Abid Ali	MS Geophysics	Model Based Inversion Technique for Reservoir Characterization of Sands of Lower Goru Formation of Miano Area, Central Indus Basin, Pakistan
27	Adnan Asif 01-262162-003	Mr. Raiees Amjad	MS Geophysics	Dry-hole Analysis of Basira-01 and Judge-01 wells, Gambat Area, Central Indus Basin, Pakistan
28	Saeed Ur Rehman 01-262172-008	Dr. Abid Ali	MS Geology	Lanslide Susceptibility mapping along the national highway (N15), Pakistan



29	Saiqa tul Kubra 01-262171-021	Asif Javed	MS ES	Assessment and Spatial clustering of road accident on Rawalpindi Pakistan
30	Humna Rasool 01-262172-044	Asif Javed	MS ES	Investigation of Smog events over Lahore and adjoining areas during 2012-2017.
31	Hafiza Unfal Jamil 01-263172-003	Dr. Said Akbar	MS EPM	Ground water resource estimation by using Visual MODFLOW: A case study of Islamabad, Pakistan
32	Muhammad Umer 01-263172-006	Asif Javed	MS EPM	Assessment of Green House gas (GHG) emission from brick kiln industry of Islamabad, Pakistan
33	Fazal Masood (01-262172-027	Dr. Said Akbar	MS ES	Drinking Water Quality Assessment from selected sources of Namli Maira, Abbottabad, Pakistan.

Decision

80. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S#	Name (Enrolment #)	Thesis Title	Internal Examiners	External Examiners
1	Anis Sabir 01-262181-001	Petrophysical and structural analysis for the assessment of facies distribution within Lower Goru associated with failed rift, Badin block, Southern Indus Basin, Pakistan	Dr. Muhsan Ehsan	Mohsin Munir
2	Basit Ali 01-262181-002	Microfacies analysis and mechanical properties of Margalla Limestone, Shah Alla Ditta area, Islamabad.	Masood Anwar	Muhammad Awais
3	Faysal Ahmad 01-262181-003	Structural Analysis of the subsurface geometries and their impact on the petrophysical properties of the reservoir in Gujjar Khan area, Eastern Potwar Basin, Pakistan	Mumtaz Ali Khan	Hafiz M. Shahzad Anjum
4	Muhammad Abbas Qamar 01-262181-005	Investigation of deposition and diagenetic fabric and reservoir properties of Hangu formation.	Adeeb Ahmed	Dr. Birkhez Aslam Shami
5	Muhammad Ahsan Ali 01-262181-006	Analysis Of Shale Gas Potential In Sembar And Ranikot Formations In The Punjab Platform, Central Indus Basin, Pakistan.	M. Raiees Amjad	Syed Habib Shah
6	Muhammad Luqman 01-262181-008	Petrography and Physico mechanical properties of Nowshera formation, Panjpir area, Swabi.	Tausif Ahmed	Mustafa Yar
7	Muhammad Nigar 01-262181-009	Reservoir Evaluation of Eocene Sequences in selected wells of Potwar Sub Basin, Pakistan.	Dr. Nosheen Sahir	Rana Faisal Shahzad



8	Muhammad Younas 01-262181-010	Reservoir Characterization and correlation in selected wells of Thal block and Shakardara Area Kohat sub basin	Saqib Mehmood	Zaheer ud Din Baber
9	Muhammad Zeeshan Shahid 01-262181-011	Assessment of Reservoir Quality on the basis of Petrophysical and Geomechanical Properties of selected wells, Southern Indus Basin, Pakistan	M. Raiees Amjad	Irfan Muhammad
10	Sheikh Hamza 01-262181-012	Petrographical and geotechnical analysis of lightweight aggregate of Taunsa Sharif.	Maryam Saleem	Dr. M. Sajid
11	Zohaib Afridi 01-262181-015	Petrogenetic study of metallic and non-metallic minerals in Jamrud area, Khyber district, KP, Pakistan.	Prof. Dr. M. Zafar	Dr. Abid Ahmad
12	Asrar Hussain 01-262181-027	Groundwater mapping and budgeting of site area, District West Karachi, Sindh, Pakistan	Prof. Dr Tahseenullah Khan	Dr Anwar Qadir
13	Salman Shah 01-262181-022	Impact of Cement industry on Air Quality of Surrounding Areas, A Case Study of Sheikh Badin National Park and Darrra Pezu.	Fiza Sarwar	Dr. Imran Shahid
14	Maria Rasool 01-262181-019	Purification and Characterization of Extracellular Lipase Produced by Bacterial Strain Isolated from Oil Contaminated Soil	Dr. Aansa Rukya Saleem	Dr. Nazneen Bangash
15	Ahtesham Tariq 01-262181-016	Bioaccumulation of selected heavy metals by bacteria strains Isolated from waste water effluent of Pakistan re-rolling steel mill (Sector I-9 Islamabad)	Asif Javed	Dr. Shahid Mahmood
16	Ammad Zaheer 01-262181-017	Assessment of physicochemical and heavy metals concentrations in selected Dams of Pakistan	Dr. Asma Jamil	Dr. Hidayat Ullah
17	Umer Nawaz 01-262181-025	Biosorption of selected heavy metals through algal biomass chlorella vulgaris	Syed Umair Ullah Jamil	Dr. Waqar un Nisa
18	Muhammad Arham Khan 01-262172-029	Comparative study of Environmental performance of steel industries in I-9 area of Islamabad to evaluate effectiveness of environmental management plan	Fiza Sarwar	Dr. M. Asad Ghufuran
19	Sumbal Riaz 01-262172-036	Process Based Assessment of Nanoparticles and Microorganisms in Indoor Work Environments of Premium Leather Industry, Lahore	Dr. Asma Jamil	Prof. Dr. Shaukat Iqbal



20	Samra Altaf 01-262181-023	To determine the potential of microalgae <i>C. vulgaris</i> for the removal of pesticide chloropyrifos	Dr. Aansa Rukya Saleem	Dr. Mazhar Iqbal
21	Nuzhat Rashid	Comparative analysis and simulation and solar PV vs conventional electricity consumption in an institutional building.	Dr. Said Akbar	Dr. Tahir Hayat
22	Abdul Muqeet 01-262171-023	Ergonomics Risk Assessment in Manual Works at Steel Goods Manufacturing unit, Rawalpindi Pakistan	Asif Javed	Dr. Waqar un Nisa
23	Urva Hanif 01-262172-045	Analysis of Seasonal Climate variability and Future Projection by Using CCSM4 Model for Metropolitan City of Islamabad, Pakistan	Dr. Said Akbar	Dr. Arshad Ashraf
24	Abdul Haseeb Abbasi 01-262172-042	3D seismic interpretation and reservoir characterization using seismic inversion techniques and AVO modelling of Gambat Area Southern Indus Basin Pakistan	Dr. Abid Ali	Ashar Manzoor
25	Fahad Ismail Abbasi 01-262172-018	Reservoir Modeling of Lockhart Formation, Manzalai Field, Kohat sub Basin, Pakistan	Dr. Muhsan Ehsan	Dr. Shazia Asim
26	Abbas Raza 01-262162-001	Model Based Inversion Technique for Reservoir Characterization of Sands of Lower Goru Formation of Miano Area, Central Indus Basin, Pakistan	Ms. Urooj Shakir	Syed Maqsood Ali Gilani
27	Adnan Asif 01-262162-003	Dry-hole Analysis of Basira-01 and Judge-01 wells, Gambat Area, Central Indus Basin, Pakistan	Dr. Muhsan Ehsan	Hafiz Shahzad Anjum
28	Saeed Ur Rehman 01-262172-008	Landslide Susceptibility mapping along the national highway (N15), Pakistan	Dr. M. Fahad Mehmood	Shahid Aziz
29	Saiqa tul Kubra 01-262171-021	Assessment and Spatial clustering of road accident on Rawalpindi Pakistan	Dr. M. Zafar	Dr. Waqas Qazi
30	Humna Rasool 01-262172-044	Investigation of Smog events over Lahore and adjoining areas during 2012-2017.	Dr. Said Akbar	Dr. M. Fahim Khokhar
31	Hafiza Unfal Jamil 01-263172-003	Ground water resource estimation by using Visual MODFLOW: A case study of Islamabad, Pakistan	Asif Javed	Dr. Shahid Mahmood
32	Muhammad Umer 01-263172-006	Assessment of Green House gas (GHG) emission from brick kiln industry of Islamabad, Pakistan	Fiza Sarwar	Dr. Imran Shahid



33	Fazal Masood (01-262172-027)	Drinking Water Quality Assessment from selected sources of Namli Maira, Abbottabad, Pakistan.	Dr. Asma Jamil	Dr. Said Muhammad
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Action by: HoD EES, IC

Item 9.30 Inclusion of Experts in the list of Local External Examiners – EES Department, IC

Discussion

81. HoD EES, IC, presented the CVs of local experts for inclusion in the pool of local external examiners to evaluate MS/PhD theses.

Decision

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

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Rahmat Ali Gakkhar	Deputy Chief Geologist	Oil & Gas Development Company Limited, Islamabad	Geology
2.	Dr. Sohail Yousaf	Assistant Professor (TTS)	Department of Environmental Sciences, Quaid-i-Azam University, Islamabad	Soil and Life Sciences, Environmental Microbiology
3	Dr. M. Tahir Hayat	Assistant Professor	COMSATS University, Department of Environmental Sciences	Environmental pollution Persistent Organic Pollutants
4	Dr. Rukhsanda Aziz	Assistant professor	Department of Environmental Science IIUI	Ecotoxicology
5	Dr. M. Abdullah Khan	Assistant Professor	Department of Environmental Sciences Quaid-i-Azam University, Islamabad Pakistan	Nanotechnology, Inorganic Chemistry
6	Dr. Mahtab Ahmad	Assistant Professor	Department of Environmental Sciences, Faculty of Biological Sciences, Quaid-i-Azam University, Islamabad	Environmental chemistry, Production and application of biochar, Wastewater treatment
7	Dr. Khaista Rehman	Associate Professor	NCE in Geology, University of Peshawar.	Seismology, Geophysics



8	Dr. Usman Ali	Environmental/H SE Manager	Petro Waste Busters	Environmental Sciences, Air Pollution
9	Farrukh Hussain	Geophysicist	Dewan Petroleum (Pvt.) Ltd	Geophysics
10	Syed Asad Ali Kazmi	Sr.Sub Surface Geoscientist/Sr. Petrophysicist	Weatherford Oil Tool MEA Ltd.	Geology
11	Shamshad Akhtar	Senior Geologist	Oil & Gas Development Company Limited, Islamabad	Geology

Action by: HoD EES, IC

Item 9.31 Payment of Honorarium to External Examiners on the day of Presentation cum

Viva Voce – EES Department, IC

Discussion

83. HoD EES, IC informed the house that the present process of payment to external examiners of MS thesis presentation/viva voce is very cumbersome and sometimes the examiners have to wait for many months to receive their honorariums. Due to such lengthy delays in payments, the department is having problems in getting good external examiners.
84. Members of FRC supported this point and shared similar experiences. It was also highlighted that in many of our peer Universities, it is a common norm to pay the honorarium to the examiners on the day of presentation.

Decision

85. It was unanimously agreed that the practice of paying the examiners on the day of presentation should be followed at Bahria University. PG Directorate to issue written instructions to accounts department to process the payments of examiners while the departments are to ensure that details of examiners are communicated to the Accounts section at least two weeks prior to the day of presentation.

Action by: PG Dte., All Depts.

**Item 9.32 Appointment of Examiners for PhD Comprehensive Exam – EES Department, IC****Discussion**

86. HoD EES, IC presented the candidates of PhD Geology and PhD Environmental Sciences Programs of Fall 2018 intake who have completed their course work and their Comprehensive Exam is going to be held in August, 2019. Particulars of the students are as follows.

S.No.	Name (Enrolment #)	Program	Supervisor	Research Title (Tentative)
1	Hina Wajid Satti 01-286182-002	PhD Geology	Prof.Dr. Tahseenullah Khan	An integrated multidisciplinary approach utilizing stratigraphy, petrophysics and geophysics to predict reservoir properties of tight gas sandstone in the lower Indus Basin, Pakistan.
2	Abdul Shakoor 01-286182-003	PhD Env. Sciences	Dr. Said Akbar Khan	Climate change and role of green belts in urban planning, A case study of Islamabad, Pakistan
3	Sumaira Akram 01-286182-001	PhD Env. Sciences	Dr. Said Akbar Khan	Evaluation of pesticide residues in honey and bee products from various phytogeographic regions of Pakistan

87. FRC was requested to approve relevant subjects and appoint appropriate examiners for the PhD Comprehensive Exam of the listed candidates.

Decision

88. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of the listed candidates.

SNo.	Name (Enrolment #)	Course	Examiner
1	Hina Wajid Satti 01-286182-002	Tectonic Evolution of Pakistan	Prof. Dr. Tahseenullah Khan
		Hydrocarbon Exploration Techniques	Dr. Muhammad Iqbal Hajana
		Clastic Sedimentology	Dr. Nosheen Sahir
		Advanced Petroleum Geology	Dr. Birkhez Aslam Shami
2	Abdul Shakoor 01-286182-003	Environmental Pollution and Climate Change	Dr. Aansa Rukya Saleem
		Environmental Health Risk Assessment	Dr. Ashiq
		Hazardous Solid Waste Management	Dr. Asma Jamil
		Recent Trends in Environmental Sciences	Dr. Said Akbar
3	Sumaira Akram 01-286182-001	Environmental Pollution and Climate Change	Dr. Aansa Rukya Saleem
		Environmental Health Risk Assessment	Dr. Ashiq
		Hazardous Solid Waste Management	Dr. Asma Jamil
		Recent Trends in Environmental Sciences	Dr. Said Akbar

Action by: HoD EES, IC

Item 9.33 Inclusion of Experts in the list of Local External Examiners – CS Department, LC

Discussion

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

Decision

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

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Tayyaba Anees	Assistant Professor	University of Management and Technology, Lahore	Communication Systems, SOA, Distributed and Parallel Systems, Software Engineering
2.	Dr. Furkh Zeshan	Assistant Professor/ DCS	COMSATS University, Lahore Campus	Service-Oriented Computing, Embedded and Real-Time Computing, Agent-Oriented Software Engineering, Self-Organizing Systems, Software Project Management

Action by: HoD CS, LC

Item 9.34 Appointment of Examiners for MS Thesis Defense – CS Department, LC

Discussion

91. HoD CS, LC, presented the cases of the following 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 listed candidates.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Hassan Shafique 03-243162-003	Asghar Ali shah	MS(CS)	Anomaly Based IDS Using Machine Learning Approach
2	M. Asif Maqsood 03-243171-017	Asghar Ali shah	MS(CS)	Learning Base Access Control in IOT
3	M. Imran Afzal 03-243172-028	Asghar Ali shah (Dr. Yaser Danial Khan)	MS(CS)	Prediction of ADP Ribosylation Factor Like protien using generalized pseudo amino acid composition & statistical moment
4	Rovaid Khan 03-243172-005	Aasim Ali	MS(CS)	Opinion Mining for Social Networking site in urdu

5	Muhammad Saqib 03-243172-019	Aasim Ali	MS(CS)	Recommender System For Urdu
6	Aoun Aftab 03-243172-011	Aasim Ali (Dr. Abid Bhutta	MS(CS)	Business process abstraction: A natural language based approach business process abstraction based on sematic label matching
7	Muhammad Asad Nabeel Yousaf 03-243172-024	Aasim Ali	MS(CS)	Generating Abstract from research article
8	Muhammad Awais 03-243172-013	Aasim Ali	MS(CS)	Consolidation of Regional data of student using ANN
9	Syed Shariq Ali 03-243172-006	Aasim Ali (Dr. Robail Yasrab)	MS(CS)	Classification of Diabetic Retinopathy using CNN
10	Nabeel Liaquat 03-243172-007	Dr. Abd-ul-Hafeez	MS(CS)	Enhancing Usability of mobile fitness application by integrating analytical hierarchical process with heuristic evaluation
11	Manal Umar 03-243172-002	Dr. Abd-ul-Hafeez	MS(CS)	Mapping HCI principle to evaluate the usability of learning application for CCI community.
12	Uzma Khaliq 03-243172-017	Dr. Abd-ul-Hafeez	MS(CS)	Usability Evaluation of HEC academic websites using fuzzy AHP
13	M. Asif 03-243172-027	Dr. Muhammad Aasim Qureshi	MS(CS)	Aspect Level Sentiment Analysis of Roman Urdu Reviews
14	Ismail Raza 03-243172-008	Dr. Muhammad Aasim Qureshi	MS(CS)	Behavioural Studies of New Users of Social Media to Solve Cold Start Problem for Recommender System
15	Zeeshan Akhtar 03-243172-031	Dr. Muhammad Aasim Qureshi	MS(CS)	Probabilistic Reporting in Rank Joins

Decision

92. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Hassan Shafique 03-243162-003	Anomaly Based IDS Using Machine Learning Approach	Mr. Aasim Ali	Dr. M. Sohaib Farooq, UMT
2	M. Asif Maqsood 03-243171-017	Learning Base Access Control in IOT	Dr. M. Aasim Qureshi	Dr. M. Sohaib Farooq, UMT



3	M. Imran Afzal 03-243172-028	Prediction of ADP Ribosylation Factor Like protein using generalized pseudo amino acid composition & statistical moment	Dr. Ghulam Mustafa	Dr. Tayyaba Anees, UMT
4	Rovaid Khan 03-243172-005	Opinion Mining for Social Networking site in urdu	Dr. M. Aasim Qureshi	Dr. M. Kamran Malik, PUCIT
5	Muhammad Saqib 03-243172-019	Recommender System For Urdu	Dr. Irum Noreen	Dr. Syed Muhammad Ali, PUCIT
6	Aoun Aftab 03-243172-011	Business process abstraction: A natural language based approach business process abstraction based on semantic label matching	Dr. Abdul Hafeez	Dr. M. Kamran Malik, PUCIT
7	Muhammad Asad Nabeel Yousaf 03-243172-024	Generating Abstract from research article	Dr. Ghulam Mustafa	Dr. Khuram Shehzad, PUCIT
8	Muhammad Awais 03-243172-013	Consolidation of Regional data of student using ANN	Dr. Irum Noreen	Dr. M. Kamran Malik, PUCIT
9	Syed Shariq Ali 03-243172-006	Classification of Diabetic Retinopathy using CNN	Dr. M. Aasim Qureshi	Dr. Syed Muhammad Ali, PUCIT
10	Nabeel Liaquat 03-243172-007	Enhancing Usability of mobile fitness application by integrating analytical hierarchical process with heuristic evaluation	Farhan Sherazi	Dr. Farukh Zeeshan, Comsats Lahore
11	Manal Umar 03-243172-002	Mapping HCI principle to evaluate the usability of learning application for CCI community.	Farhan Sherazi	Dr. Shahid Naseem, Univ. of Education
12	Uzma Khaliq 03-243172-017	Usability Evaluation of HEC academic websites using fuzzy AHP	Dr. M. Aasim Qureshi	Dr. Ansar Siddique, Univ. of Gujrat
13	M. Asif 03-243172-027	Aspect Level Sentiment Analysis of Roman Urdu Reviews	Dr. Abdul Hafeez	Mehwish Kayani, PUCIT
14	Ismail Raza 03-243172-008	Behavioural Studies of New Users of Social Media to Solve Cold Start Problem for Recommender System	Dr. Ghulam Mustafa	Dr. Adnan Abid, UMT



15	Zeeshan Akhtar 03-243172-031	Probabilistic Reporting in Rank Joins	Mr. Asghar Ali Shah	Dr. M. Sohaib Farooq, UMT
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Item 9.35 Appointment of Examiners for PhD Proposal Defense – EE Department, KC

Discussion

93. Engr. Muhammad Faisal Siddiqui (02-281172-002) enrolled in the PhD (EE) program cleared his comprehensive exam in November 2018 and is now ready to appear for the PhD proposal defense. The particulars of the candidate are as follows:

S No.	Name and Enrolment #	Principal Supervisor	Thesis Title
1.	Engr. Muhammad Faisal Siddiqui 02-281172-002	Dr. Najam M. Amin	Ultra low-power receiver design for Bluetooth Low Energy

94. FRC was requested to appoint an appropriate panel of examiners to conduct the PhD proposal defense of the candidate.

Decision

95. On recommendation of the DRC, FRC appointed the following panel of examiners to conduct the PhD Proposal Defense of Engr. Muhammad Faisal Siddiqui (02-281172-002). Department must ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

S No.	Name (Enrolment #)	Program	Research Title	Internal Examiner	External Examiners
1	Engr. Muhammad Faisal Siddiqui (02-281172-002)	PhD (EE)	Ultra low-power receiver design for Bluetooth Low Energy	Dr. Khawaja Qasim Maqbool - BULC	Dr. Hashim Raza Khan Dr. Ghous Bux

Action by: HoD EE, KC

Item 9.36 Appointment of Examiners for MS Thesis Defense – EE Department, KC

Discussion

96. HoD SE, KC, presented the case of Engr. Hafiz Fahad Ashraf (02-244171-002) who has completed his research objectives his MS thesis for evaluation. The particulars of the candidate are as follows.



S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Engr. Hafiz Fahad Ashraf (02-244171-002)	Dr. Haroon Rasheed	MS (EE)	Performance Analysis Of Power Generation Using Biomass Fuel

97. FRC was requested to appoint appropriate internal and external examiners for the MS thesis defense of Engr. Hafiz Fahad Ashraf (02-244171-002).

Decision

98. On recommendation of DRC, FRC appointed the following panel of examiners for the final MS thesis defense of Engr. Hafiz Fahad Ashraf (02-244171-002).

S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Engr. Hafiz Fahad Ashraf (02- 244171-002)	Performance Analysis Of Power Generation Using Biomass Fuel	Dr. Anzar Alam	Prof. Dr. Talat Altaf

Action by: HoD EE, KC

Item 9.37 Failure to Pass the PhD Proposal Defense – EES Department, KC

Discussion

99. HoD EES, KC, presented the case of Mr. Muhammad Irfan (Reg. no. 9904) PhD scholar of E&ES department enrolled in spring 2016. The house was informed that the candidate passed the comprehensive examination in May 2017 and appeared for the PhD proposal defense on 25th September 2018. The candidate failed to pass the proposal defense and appeared again on 22 May 2019 during which the examiners suggested major changes in the proposal. FRC was requested to allow the candidate to revise the research proposal granting an extension of four months in the time to clear the PhD proposal defense.

Decision

100. It was observed with serious concern that the case of the candidate was never presented in FRC for approval of examiners. The proposal defense of the candidate was carried out, on both occasions, by the department without seeking approval from the FRC.

101. It was also observed that in accordance with para 25.7 of PhD rules, *“If the proposal is rejected twice or if the scholar fails to get the thesis proposal approved within one year since*



having passed the comprehensive examination, the FRC shall recommend termination of candidacy of the scholar”.

102. FRC, therefore, cannot grant an extension to the candidate and the department was recommended to process the case in accordance with para 25.7 of PhD Rules.
103. FRC directed EES-KC to ensure the implementation of PG rules (MS/MPhil, PhD) in letter and spirit for all the enrolled students.

Action by: HoD EES, KC

Item 9.38 Unsatisfactory Progress of MS Research Students – EES Department, KC

Discussion

104. HoD EES, KC presented the cases of the following MS research students who have received three unsatisfactory progress reports from their respective supervisors.
- a. Kamran Ali Khan (Reg. No. 13969) – MS Geophysics
 - b. Naveed Gul (Reg. no. 9915) – MS Geophysics
 - c. Memona Khokar (Reg. no. 19990) – MS Environmental Sciences
105. DRC recommended the termination of the candidacy of the students in accordance with Para 24.7.2 of the MS/MPhil Rules.

Decision

106. It was observed that these cases should have been presented in the 8th meeting of the FRC. Chair FRC pointed out that such cases must be timely reported to the FRC.
107. It was also observed that all three students were admitted in the Spring 2015 intake and are time barred. Department was directed to process the cases of Kamran Ali Khan (Reg. No. 13969), Naveed Gul (Reg. no. 9915) and Memona Khokar (Reg. no. 19990) in accordance with the time bar rules.

Action by: HoD EES, KC

Item 9.39 Change of Supervisor, PhD Candidate – EES Department, KC

Discussion

108. HoD EES, KC presented the case of PhD candidate Mr. Muhammad Irfan (02-282142-003) who was working under the supervision of Dr. Mubarik Ali. Dr. Mubarik Ali has retired



from Bahria University on January 31, 2018 and the appointment of supervisor for the candidate is pending.

109. Dr. Mehrab Khan, Professor in E&ES department (BUKC), has provided his consent to supervise Mr. Irfan and Mr. Irfan has also shown his willingness to work under the supervision of Dr. Mehrab Khan. FRC was requested to approve the appointment of Dr. Mehrab Khan as Principal Supervisor of Mr. Muhammad Irfan.

Discussion

110. On recommendation of DRC, FRC approved the appointment of Dr. Mehrab Khan as the Principal Supervisor of PhD candidate Mr. Muhammad Irfan (02-282142-003).

Action by: HoD EES, KC

Item 9.40 Appointment of Examiners for MS Thesis Defense – SE Department, IC

Discussion

111. HoD SE, IC, presented the cases of the following 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 listed candidates.

S#	Student (Enrolment#)	Supervisor/ Co-Supervisor	Program	Title
1	Hira Maryam (01-241172-002)	Dr. Saleem Iqbal Dr. Muneeb Gohar	MS (SE)	Automated rule forming at controller in Software Defined Network
2	Mehreen Aftab (01-241172-007)	Dr. Shahid Nazir Bhatti	MS (SE)	An Empirical Approach for Cost Effectiveness of Requirements Management and Critical Factors in Agile
3	Momina Mushtaq (01-241172-011)	Dr. Muneeb Gohar Dr. Saleem Iqbal	MS (SE)	Use of Hash-Based proxy mobile IPV6 for mobility management in COAP based internet- of-things networks
4	Muhammad Faisal Bashir (01-241172-013)	Dr. Ahmed Ali Dr. Raja M. Suleman	MS (SE)	Robust Visual Object Tracking
5	Muhammad Farhan Safdar (01-241172-014)	Dr. Raja M. Suleman	MS (SE)	A Comparative Analysis of Data augmentation Approaches for MRI Scan Images of Brain Tumour



6	Rahat Izahar (01-241172-021)	Dr. Shahid Nazir Bhatti	MS (SE)	Analytical Impact of Requirements Management in Enterprise Recourse Planning (EPP)
7	Rubab Sheikh (01-241172-022)	Dr. Imran Babar Dr. Tamim A. Khan	MS (SE)	Test Case Minimization Approach for Reliable Regression Testing for Web Based System s
8	Sana Amin (01-241172-024)	Dr. Imran Babar Dr. Awais Majeed	MS (SE)	Robotic Software architecture Frameworks Research Trends and Future Vision
9	Tayyab Iltaf (01-241172-029)	Dr. Awais Majeed	MS (SE)	Conflict Identification and Resolution Between Heterogeneous Systems in IOT Environment Through Risk Based Prioritization
10	Waqar Khalid (01-241172-032)	Dr. Ahmed Ali Dr. Raja M. Suleman	MS (SE)	Multi Sensor Data Fusion
11	Ahtasham Farooq (01-241172-034)	Dr. Awais Majeed	MS (SE)	Deep Time Aware QOS Based Service Recommendation
12	Ansar Arshaad (01-241172-035)	Dr. Tamim Ahmad Khan	MS (SE)	GUI Test Case Minimization and Prioritization Using Data Mining and Machine Learning
13	Faizan Zafar (01-241172-036)	Dr. Raja M. Suleman	MS (SE)	Energy Consumption Forecasting by Grey Prediction Models and Artificial Neural Networks in Grey System A Comparative Analysis
14	Nazia Aftab (01-241172-037)	Dr. Raja M. Suleman	MS (SE)	Sentiment Analysis of Urdu Tweets
15	Muhammad Irfan Khalid (01-241172-038)	Dr. Raja M. Suleman	MS (SE)	A Conceptual Framework for Blockchain Based Land Registry Systems
16	Muhammad Naeem (01-241172-039)	Dr. Imran Babar Dr. Awais Majeed	MS (SE)	Cloud Computing Security Requirements Challenges Research Trends and Knowledge
17	Talal Bin Afzal (01-241172-040)	Dr. Tamim Ahmad Khan	MS (SE)	Test Case Generation Using User Stories
18	Muhammad Sharan Khalid (01-241172-046)	Dr. Ahmed Ali Engr. Adeel M. Syed	MS (SE)	Bottle Detection form Aerial Images
19	Ali Haider (01-241172-048)	Dr. Awais Majeed	MS (SE)	Automatic Classification of Cardiac Ischemia Through Machine Learning
20	Osama Saeed Rana (01-241172-055)	Dr. Muzamil	MS (SE)	Lightweight Consensus Protocol for Smart IoT Devices



21	Ubaid Bin Zafar (01-241172-057)	Dr. Tamim Ahmad Khan	MS (SE)	Role of SLA in User Migration
22	Sardar Waqar Khan (01-241172-060)	Dr. Raja M. Suleman	MS (SE)	Anomaly Detection in Video Footage using Deep Learning
23	Aftab Alam Janisar (01-241171-002)	Dr. Hammad Afzal Dr. Raja M. Suleman	MS (SE)	A framework to detect hate speech of Pashto Language from social media.
24	Anjum Iqbal (01-241171-005)	Dr. Raja M. Suleman	MS (SE)	Development of an Ontology of C# Language for Intelligent Tutoring System
25	Muhammad Orangzaib (01-241171-020)	Prof. Dr. Shahzad Khalid	MS (SE)	Lungs cancer detection using 3D CNN.
26	Roha Ali (01-241171-023)	Engr. Adeel M. Syed	MS (SE)	A Hybrid exposure and Contrast Enhancement for Low light images
27	Shahbaz Ali Imran (01-241171-037)	Dr. Sabina Akhter	MS (SE)	Safety and security of the cyber-physical system: A security framework.
28	Mehwish Yaqoob (01-241171-039)	Dr. Hammad Afzal Dr. Awais Majeed	MS (SE)	Fake news detection in Urdu language from social and traditional media.
29	Warda Rizwan (01-241171-041)	Dr. Raja M. Suleman	MS (SE)	Generating Questions from Knowledge Graphs with Prescribed Difficulty Level
30	Sumbal Khan (01-241162-027)	Dr. Irfan ul haq Dr. Tamim A. Khan	MS (SE)	Smart contract-based supply chain management
31	Hafsa Rizwan (01-246172-004)	Dr. Shahid Nazir Bhatti	MS (EM)	Impact and analysis of Quality Standards on Electronics Industry A case Study of Pakistan
32	Javeria Malik (01-246172-006)	Dr. Zahoor Sarwar	MS (EM)	Women Job Satisfaction Influenced by Flexible Work Hours in Software Industry of Pakistan
33	Mubashir Ali Qureshi (01-246172-007)	Dr. Taqadus Bashir	MS (EM)	The factors Leading to Employee Turnover in Software and Telecommunication Sectors of Pakistan
34	Muneeb Iqbal (01-246172-009)	Dr. Taqadus Bashir	MS (EM)	Analysing Mediating Effect of Corporate Image in Relationship Between PSQ Elements and Customer Satisfaction in Telecommunication Industry
35	Sabahat Nawaz (01-246172-010)	Dr. Zahoor Sarwar	MS (EM)	Positive Lean Impact on Productivity Enhancement and Psychology of Work



36	Syed M. Yasir Ali Chishti (01-246172-012)	Dr. Abdul Baseer Qazi	MS (EM)	Measuring the Impact of Cloud Computing on Business Performance the Case of Islamabad
37	Zeeshan Aziz (01-246172-013)	Dr. Zahoor Sarwar	MS (EM)	Impact of Soft Skills on Engineer's Performance
38	Anis Kamal (01-246171-001)	Prof. Dr. M. Ismail Ramay	MS (EM)	Impact of CPEC on Importers of Pakistan and Suggested Solutions
39	Nadeem Ahmed (01-246171-007)	Prof. Dr. M. Ismail Ramay	MS (EM)	Supply Chain Management Practices and Their Impact on Firm's Performance: A Study of Pakistan Based Oil Marketing Companies
40	Muhammad Sannan Butt (01-241171-021)	Dr. Shahid Nazir Bhatti	MS (SE)	Requirements Prioritization Model in Agile Software Development Process: Scrum as Case Scenario
41	Aleeza Safdar (01-241162-003)	Dr. Shahid Nazir Bhatti	MS (SE)	Starvation in Software Requirements Prioritization: Scrum as Case Study

Decision

112. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S#	Student (Enrolment#)	Title	Internal Examiner	External Examiner
1	Hira Maryam (01-241172-002)	Automated rule forming at controller in Software Defined Network	Dr. Awais Majeed	Dr. Adnan Akhunzada
2	Mehreen Aftab (01-241172-007)	An Empirical Approach for Cost Effectiveness of Requirements Management and Critical Factors in Agile	Dr. Awais Majeed	Dr. Irum Inayat
3	Momina Mushtaq (01-241172-011)	Use of Hash-Based proxy mobile IPV6 for mobility management in COAP based internet-of-things networks	Dr. Shehzad Hassan	Dr. Sajjad Ahmad Madani



4	Muhammad Faisal Bashir (01-241172-013)	Robust Visual Object Tracking	Dr. Tamim A. Khan	Dr. Khurram Khurshid
5	Muhammad Farhan Safdar (01-241172-014)	A Comparative Analysis of Data augmentation Approaches for MRI Scan Images of Brain Tumour	Engr. Adeel M. Syed	Dr. M. Usman Akram
6	Rahat Izahar (01-241172-021)	Analytical Impact of Requirements Management in Enterprise Recourse Planning (EPP)	Dr. Awais Majeed	Dr. Imran Babar
7	Rubab Sheikh (01-241172-022)	Test Case Minimization Approach for Reliable Regression Testing for Web Based System s	Dr. Shahid Nazir Bhatti	Dr. Nouman Malik
8	Sana Amin (01-241172-024)	Robotic Software architecture Frameworks Research Trends and Future Vision	Dr. Tamim A. Khan	Dr. Iftikhar Azim Niaz
9	Tayyab Iltaf (01-241172-029)	Conflict Identification and Resolution Between Heterogeneous Systems in IOT Environment Through Risk Based Prioritization	Dr. Raja Suleman	Dr. Sajjad Ahmed Madani
10	Waqar Khalid (01-241172-032)	Multi Sensor Data Fusion	Dr. Shehzad Hassan	Dr. Sohail Asghar
11	Ahtasham Farooq (01-241172-034)	Deep Time Aware QOS Based Service Recommendation	Dr. Shahid Nazir Bhatti	Dr. Fahim Arif
12	Ansar Arshaad (01-241172-035)	GUI Test Case Minimization and Prioritization Using Data Mining and Machine Learning	Dr. Raja M. Suleman	Dr. Nouman Malik
13	Faizan Zafar (01-241172-036)	Energy Consumption Forecasting by Grey Prediction Models and Artificial Neural Networks in Grey System A Comparative Analysis	Dr. Sumaira Kausar	Dr. M. Mukaram Khan



14	Nazia Aftab (01-241172-037)	Sentiment Analysis of Urdu Tweets	Dr. Arif ur Rehman	Dr. Hammad Afzal
15	Muhammad Irfan Khalid (01-241172-038)	A Conceptual Framework for Blockchain Based Land Registry Systems	Dr. Muhammad Muzammil	Dr. Irfan ul Haq
16	Muhammad Naeem (01-241172-039)	Cloud Computing Security Requirements Challenges Research Trends and Knowledge	Dr. Tamim A. Khan	Dr. M. Mukaram Khan
17	Talal Bin Afzal (01-241172-040)	Test Case Generation Using User Stories	Dr. Shahid Nazir Bhatti	Dr. Rizwan bin Faiz
18	Muhammad Sharan Khalid (01-241172-046)	Bottle Detection form Aerial Images	Dr. Sumaira Kausar	Dr. Usman Akram
19	Ali Haider (01-241172-048)	Automatic Classification of Cardiac Ischemia Through Machine Learning	Engr. Adeel M. Syed	Dr. Khawar Khurshid
20	Osama Saeed Rana (01-241172-055)	Lightweight Consensus Protocol for Smart IoT Devices	Dr. Raja M. Suleman	Dr. Sajjad Ahmed Madani
21	Ubaid Bin Zafar (01-241172-057)	Role of SLA in User Migration	Dr. Shahid Nazir Bhatti	Dr. Iftikhar Azim Niaz
22	Sardar Waqar Khan (01-241172-060)	Anomaly Detection in Video Footage using Deep Learning	Dr. Samabia Tehseen	Dr. Usman Qamar
23	Aftab Alam Janisar (01-241171-002)	A framework to detect hate speech of Pashto Language from social media.	Dr. Arif ur Rehman	Dr. Ahmad R. Shahid
24	Anjum Iqbal (01-241171-005)	Development of an Ontology of C# Language for Intelligent Tutoring System	Dr. Asfand e Yar	Dr. Arshad Awan
25	Muhammad Orangzaib (01-241171-020)	Lungs cancer detection using 3D CNN.	Dr. Raja M. Suleman	Dr. Khawar Khurshid
26	Roha Ali (01-241171-023)	A Hybrid exposure and Contrast Enhancement for Low light images	Dr. Imran Siddiqi	Dr. Sibte-ul-Hussain



27	Shahbaz Ali Imran (01-241171-037)	Safety and security of the cyber-physical system: A security framework.	Dr. M. Najam-ul-Islam	Dr. Mansoor Ahmed
28	Mehwish Yaqoob (01-241171-039)	Fake news detection in Urdu language from social and traditional media.	Dr. Tamim A. Khan	Dr. Ahmad R. Shahid
29	Warda Rizwan (01-241171-041)	Generating Questions from Knowledge Graphs with Prescribed Difficulty Level	Dr. Tamim A. Khan	Dr. Seemab Latif
30	Sumbal Khan (01-241162-027)	Smart contract-based supply chain management	Dr. Muhammad Muzammil	Dr. Basit Shahzad
31	Hafsa Rizwan (01-246172-004)	Impact and analysis of Quality Standards on Electronics Industry A case Study of Pakistan	Dr. Abdul Baseer Qazi	Dr. Ansir A. Rajput
32	Javeria Malik (01-246172-006)	Women Job Satisfaction Influenced by Flexible Work Hours in Software Industry of Pakistan	Engr. Bilal Ashraf Awan	Dr. Muhammad Tahir
32	Mubashir Ali Qureshi (01-246172-007)	The factors Leading to Employee Turnover in Software and Telecommunication Sectors of Pakistan	Dr. Abdul Baseer Qazi	Dr. Ali Ahsan
34	Muneeb Iqbal (01-246172-009)	Analysing Mediating Effect of Corporate Image in Relationship Between PSQ Elements and Customer Satisfaction in Telecommunication Industry	Dr. Sheikh Zahoor	Dr. Ali Ahsan
35	Sabahat Nawaz (01-246172-010)	Positive Lean Impact on Productivity Enhancement and Psychology of Work	Dr. Farrukh Jaleel	Dr. Muhammad Tahir Nawaz
36	Syed M. Yasir Ali Chishti (01-246172-012)	Measuring the Impact of Cloud Computing on Business Performance the Case of Islamabad	Ms. Rafia Hassan	Dr. Ansir A. Rajput
37	Zeeshan Aziz (01-246172-013)	Impact of Soft Skills on Engineer's Performance	Ms. Rafia Hassan	Dr. Faheem Qaisar



38	Anis Kamal (01-246171-001)	Impact of CPEC on Importers of Pakistan and Suggested Solutions	Dr. Farrukh Jaleel	Dr. Muhammad Irfan Ullah Arfeen
39	Nadeem Ahmed (01-246171-007)	Supply Chain Management Practices and Their Impact on Firm's Performance: A Study of Pakistan Based Oil Marketing Companies	Engr. Bilal Ashraf Awan	Dr. Faheem Qaisar
40	Muhammad Sannan Butt (01-241171-021)	Requirements Prioritization Model in Agile Software Development Process: Scrum as Case Scenario	Dr. Awais Majeed	Dr. Imran Babar
41	Aleeza Safdar (01-241162-003)	Starvation in Software Requirements Prioritization: Scrum as Case Study	Dr. Awais Majeed	Dr. Imran Babar

Action by: HoD SE, IC

Item 9.41 Cancellation of Candidacy, PhD Scholar – SE Department, IC

Discussion

113. HoD SE, IC, presented the case of Mr. Adil Nazir (Enrolment 01-281171-004), registered in the PhD (SE) program in Spring 2017 semester. Mr. Adil completed his coursework in Spring 2018 and appeared in comprehensive exam on 15th August, 2018. Mr. Adil was unable to pass the comprehensive exam in the first attempt. The candidate appeared for a Re-take on 1st March, 2019. Unfortunately, Mr. Adil was once again unable to pass the comprehensive exam in this 2nd attempt.

114. As per BU PhD Rules 2017, Mr. Adil's PhD candidacy is to be cancelled. The case was forwarded for the approval of the FRC.

Discussion

115. On recommendation of DRC and in accordance with Para 24.6 of PhD Rules, FRC approved the drop of candidate Mr. Adil Nazir (Enrolment 01-281171-004) from PhD (SE) program.

Action by: HoD SE, IC

Item 9.42 Ratification of External Examiner for MS Thesis Defense – SE Department, IC**Discussion**

116. HoD SE, IC presented the case of Ms. Sham-e-Aimen (01-246172-011), MS Engineering Management student in the Department of Software Engineering working under the supervision of Dr. Ismail Ramay. The Faculty Research Committee (FRC) in its 8th meeting had approved Dr. Syed Muhammad Ali as the external examiner for the MS Thesis Final Defense of the candidate. On contacting the external examiner, it was learned that Dr. Syed Muhammad Ali is on ex-Pakistan leave on account of his Postdoc and will not be returning before the year 2020. In view of the above, a request for the replacement of external supervisor was moved on file to Dean(ES) with the following names.

S#	Name	Affiliation
1	Dr. Faheem Qaisar	NUST College of E&ME
2	Dr. Murtaza Mir	CASE, Islamabad

117. Dean (ES) appointed Dr. Faheem Qaiser as the external examiner of the candidate and the viva voce was conducted accordingly. Ratification of change of external examiners was requested from the house.

Discussion

118. FRC ratified the appointment of Dr. Faheem Qaisar as external examiner for the MS Thesis defense of Ms. Sham-e-Aimen (01-246172-011).

Action by: NIL

Item 9.43 Inclusion of Expert in the list of Local External Examiners – SE Department, IC**Discussion**

119. HoD SE, IC, presented the CV of Dr. Zeeshan Iqbal, Asst. Professor at UET Taxila, for inclusion in the pool of local external examiners to evaluate MS/PhD theses.

Decision

120. FRC approved the inclusion of Dr. Zeeshan Iqbal in the pool of local external examiners, his particulars are summarized in the following.



SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Zeeshan Iqbal	Assistant Professor	UET Taxila	Distribute Systems, Cloud Computing, Distributed Databases, VANET

Action by: HoD SE, IC

Item 9.44 Appointment of Examiners for MS Thesis Defense – EE Department, IC

Discussion

121. HoD EE, IC, presented the cases of the following 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 listed candidates.

S. No.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Muhammad Faizan Malik 01-244171-019	Dr. Saqib Haroon (Mudassar Wahab)	MS(EE)	Dynamic Optimal Dispatch Problem Considering Environmental Constraint Using Water Cycle Algorithm
2	Muhammad 01-244171-015	Dr. Junaid Imtiaz	MS(EE)	Energy Efficient Adaptive Routing Mechanism for Wireless Sensor Network
3	Muhammad Nauman 01-244172-045	Dr. Atif Raza Jafri	MS(EE)	Hardware Implementation of Overlap Save Method Based Fading Channel Emulator
4	Ali Raza 01-244172-003	Dr. Saleem Aslam	MS(EE)	Optimal Transmission Support for Real Time Applications Using Fog-Edge Computing.
5	Aftab Ahmed 01-244171-039	Dr. Asad Waqar	MS(EE)	Predictive Direct Power Control of Voltage Source Converter (VSC) In Microgrid.
6	Tasawar Abbas 01-244171-040	Dr. Imtiaz Alam	MS(EE)	Realization of Electric Vehicle to Hybrid AC Grid.
7	Yasir Iqbal 01-244171-036	Dr. Imtiaz Alam (Maryam Iqbal)	MS(EE)	Modelling and Simulation of an Electric Vehicle Lithium-Ion Battery Pack Through Bond Graph at Low Temperature.
8	Almas Arshad 01-244171-004	Dr. Muhammad Amin (Mudassir Wahab)	MS(EE)	UV Weathering of Epoxy and Silicon Rubber Composites for High Voltage Electrical Insulation under AC Stress.
9	Muhammad Naeem 01-244171-021	Dr. Asim Ali Shah	MS (EE)	Ionization of non-metallic object for Small Contactless Grippers
10	Malik Aqib Rehman 01-244172-013	Dr. Asim Ali Shah	MS (EE)	Feedback Controlled Variable Electric Field System for Smart Contactless Gripper
11	Hafiz Imran Zafar 01-244171-008	Jehanzed Ahmad	MS (EE)	Solar PV Fed Motor Drive for BLDC Air Conditioner Compressor



Decision

122. On recommendation of DRC, FRC appointed the following panels for the final MS thesis defense of the listed candidates.

S. No.	Name (Enrolment #)	Thesis Title	Internal Examiner	External Examiner
1	Muhammad Faizan Malik 01-244171-019	Dynamic Optimal Dispatch Problem Considering Environmental Constraint Using Water Cycle Algorithm	Dr. Asad Waqar	Dr. Azhar ul Haq
2	Muhammad 01-244171-015	Energy Efficient Adaptive Routing Mechanism for Wireless Sensor Network	Dr. Imtiaz Alam	Dr. Amir Habeeb
3	Muhammad Nauman 01-244172-045	Hardware Implementation of Overlap Save Method Based Fading Channel Emulator	Dr. Khalid Javed	Dr. Usman Zabit
4	Ali Raza 01-244172-003	Optimal Transmission Support for Real Time Applications Using Fog-Edge Computing.	Dr. Moneeb Gohar	Dr. Ishfaq Ahmed
5	Aftab Ahmed 01-244171-039	Predictive Direct Power Control of Voltage Source Converter (VSC) In Microgrid.	Dr. Muhammad Aamir	Dr. Intisar Ali Sajjad
6	Tasawar Abbas 01-244171-040	Realization of Electric Vehicle to Hybrid AC Grid.	Dr. Asad Waqar	Dr. Wajahat Ullah Tareen
7	Yasir Iqbal 01-244171-036	Modelling and Simulation of an Electric Vehicle Lithium-Ion Battery Pack Through Bond Graph at Low Temperature.	Dr. Syed Asim Ali Shah	Dr. Syed Haider Abbas
8	Almas Arshad 01-244171-004	UV Weathering of Epoxy and Silicon Rubber Composites for High Voltage Electrical Insulation under AC Stress.	Dr. Asad Waqar	Dr. Shahid Mahmood Khan
9	Muhammad Naeem 01-244171-021	Ionization of non-metallic object for Small Contactless Grippers	Jehanzeb Ahmed	Dr. Faraz Ahmed Kunwar
10	Malik Aqib Rehman 01-244172-013	Feedback Controlled Variable Electric Field System for Smart Contactless Gripper	Nadia Imran	Dr. Faraz Ahmed Kunwar
11	Hafiz Imran Zafar 01-244171-008	Solar PV Fed Motor Drive for BLDC Air Conditioner Compressor	Dr. Atif Raza Jafri	Dr. Syed Haider Abbas

Action by: HoD EE, IC

Item 9.45 Appointment of Examiners for PhD Proposal Defense – EE Department, IC

Discussion

123. HoD EE, IC presented the cases of the following students who have cleared the PhD comprehensive exam and are ready to appear for the PhD proposal defense. FRC was requested to appoint an appropriate panel of examiners to conduct the PhD proposal defense of the candidates.

SNo.	Name (Enrolment #)	Supervisor (Co-Supervisor)	Program	Thesis Title
1	Maryam Iqbal Shah Taizi 01-281171-003	Dr. Asif Mehmood Mughal (Dr. Syed Asim Ali Shah)	PhD (EE)	Modelling and Control Synthesis of Human Impaired Hand for Anthropomorphic Coordination.
2	Syed Umaid Ali 01-281172-006	Dr. Atif Raza Jafri (Dr. Muhammad Aamir)	PhD (EE)	Control of Hybrid AC-DC microgrid using variable weighing factor algorithm.
3	Faheem Haroon 01-281172-005	Dr. Atif Raza Jafri (Dr. Muhammad Aamir)	PhD (EE)	An improved Sliding Mode Control for Voltage Source Inverters using optimal surface selection mechanism.
4	Badar Ali 01-281171-002	Dr. Asim Ali Shah (Dr. Imtiaz Alam)	PhD (EE)	Smart contactless gripping of non-metallic materials.

Decision

124. On recommendation of the DRC, FRC appointed the following panel of examiners to conduct the PhD Proposal Defense of the listed candidates. Department must ensure that the proposal defense is carried out within the time frame in accordance with the PhD Rules.

S No.	Name (Enrolment #)	Program	Thesis Title	Internal Examiners	External Examiners
1	Maryam Iqbal Shah Taizi 01-281171-003	PhD (EE)	Modelling and Control Synthesis of Human Impaired Hand for Anthropomorphic Coordination.	Dr. Muhammad Aamir	Dr. Ammar Hassan Dr. Muhammad Rehan



2	Syed Umaid Ali 01-281172-006	PhD (EE)	Control of Hybrid AC-DC microgrid using variable weighing factor algorithm.	Dr. Haroon Rashid (BUKC)	Dr. Intisar Ali Sajjad Dr. Hassan Abdullah Khalid
3	Faheem Haroon 01-281172-005	PhD (EE)	An improved Sliding Mode Control for Voltage Source Inverters using optimal surface selection mechanism.	Dr. Asad Waqar	Dr. Shoaib Khalid Dr. Wajahat Ullah Tareen
4	Badar Ali 01-281171-002	PhD (EE)	Smart contactless gripping of non-metallic materials.	Dr. Junaid Imtiaz	Dr. Usman Zabib Dr. Faraz Ahmed Kunwar

Action by: HoD EE, IC

Item 9.46 Cancellation of Admission, PhD Scholar – EE Department, IC

Discussion

125. HoD EE, IC presented the case of Engr. Muneeb Yaqoob (01-281171-001) enrolled in the PhD (EE) program in the department of Electrical Engineering. The particulars of the candidate are summarized in the following.

S. No	Name (Enrolment No)	Thesis Title	Supervisor
1.	Engr. Muneeb Yaqoob (01-281171-001)	Optimization of Renewable Energy Sources Integrated at MV/LV Microgrids for Grid Reinforcements Considering the Stochastic Behaviors.	Dr. Asad Waqar

126. The candidate was not able to submit his research proposals within the time frame specified in the PhD Rules. He was reminded by the department to submit the proposal time and again but no proposal is submitted to date. FRC was requested to approve the cancellation of admission of the mentioned PhD candidate.

Decision

127. In accordance with Para 25.7 of PhD Rules, FRC approved the cancellation of admission of PhD candidate Engr. Muneeb Yaqoob (01-281171-001). Case to be processed further by the department in accordance with the PhD Rules.

Action by: HoD EE, IC

Item 9.47 Inclusion of Experts in the list of Local External Examiners – EE Department, IC

Discussion

128. HoD EE, IC, presented the CVs of local experts for inclusion in the pool of local external examiners to evaluate MS/PhD theses.

Decision

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

SNo.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Abdul Rauf Bhatti	Associate Professor	Government College University Faisalabad	Electrical Energy Management, Electric Vehicle Charging, Solar Photovoltaic, Artificial Intelligence, Deterministic Algorithms and Renewable Energy.
2.	Dr. Muhammad Irfan	General Manager (Technical)	NESCOM Islamabad, Pakistan	Embedded system and Control Engineering graduate with 15+ years of experience in Embedded systems, Control System, Matlab/Simulink, Programming languages (Assembly, C/C++), real-time embedded, Communication Systems, Industrial Applications, dedicated Programming languages, Hardware/Software Design, Development, Implementation and System Verification.
3.	Dr. Jawad Ahmad	Deputy Manager, Advanced Metering Infrastructure	IESCO, Islamabad	Maximum Power Point Tracking of Photovoltaic Arrays. Measurement of Current vs. Voltage Curve of Solar Arrays from On-site Measurements. Fault diagnosis of PV modules under real time operation. Electrical Power Distribution. Advanced Metering Infrastructure
4	Dr. Muhammad Ali Mehmood	Assistant Professor	COMSATS Institute of Information Technology Wah Campus	High Voltage Engineering, Power Systems, Insulators & Diagnostic.
5	Dr. Abraiz Khattak	Assistant Professor	National University of Sciences and	High Voltage Engineering, Special Topics in Dielectrics and



			Technology (NUST), Islamabad, Pakistan	Insulators, Power System Operation Control and Optimization.
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Action by: HoD EE, IC

Item 9.48 Recommendation of Foreign Evaluators, PhD Candidate - EE Department, IC

Discussion

130. HOD EE, IC presented the case of PhD (EE) candidate, Mr. Ali Mustafa (Enrolment# 01-281131-002) who has submitted his PhD thesis to the department for internal evaluation. FRC was requested to provide conditional recommendation of foreign evaluators so that subsequent processing can be carried out in time (in case of successful internal defence). Particulars of the candidate are summarized in the following.

S. No	Name Enrolment No	Thesis Title	Supervisor	Co-Supervisor
1.	Ali Mustafa 01-281131-002	Cooperative Control of Networked Multi Agent Systems	Prof. Dr. Najam Ul Islam	Dr. Salman Ahmed

Decision

131. On recommendation of DRC, FRC recommended the following experts for the foreign evaluation of the PhD Thesis of Mr. Ali Mustafa (Enrolment# 01-281131-002) subject to the clearance of internal defense.

SNo.	Name	Designation	Affiliation	Country	Specialization
1.	Prof. Dr. Sungchang Lee	Professor	Korea Aerospace University, School of Electronics	South Korea	Electrical Engineering
2.	Prof. Dr. Kyung Sup Kwak	Professor	Inha University	South Korea	Communication Systems
3.	Prof. Dr. Jonathan Andrew Ware	Professor	University of South Wales	UK	Computing, Artificial intelligence
4.	Dr. Jaime Lloret	Associate Professor	Polytechnic university of Valencia	Spain	Communication and Networks

Action by: HoD EE, IC



Item 9.49 Appointment of Examiners for PhD Comprehensive Exam – EE Department, IC

Discussion

132. HoD EE, IC presented the case of Mr. Muhammad Waqas (01-281181-001) enrolled in the PhD (EE) program with the following particulars.

SNo.	Name (Enrolment #)	Program	Supervisor	Thesis Title
1	Muhammad Waqas 01-281181-001	PhD (EE)	Dr. Saleem Aslam	Optimization D2D Communication: A Potential Candidate for Next Generation Communication Systems

133. The candidate has completed his course work and needs to appear for the PhD comprehensive exam. FRC was requested to approve relevant subjects and appoint appropriate examiners for the PhD Comprehensive Exam of Mr Muhammad Waqas.

Decision

134. On recommendation of the DRC, FRC approved the following subjects and examiners for the PhD comprehensive exam of Mr. Muhammad Waqas (01-281181-001).

SNo.	Name (Enrolment #)	Course	Examiner
1	Muhammad Waqas 01-281181-001	Machine Learning	Dr. Sumaira Kausar
		Advanced Digital Image Processing	Dr. Samabia Tehseen
		Advanced Digital Communications Systems	Dr. Saleem Aslam
		Wireless Communication Techniques	Dr. Shahzad Hassan

Action by: HoD EE, IC

Item 9.50 Travel Grant Policy for Local Conferences

Discussion

135. The travel grant policy for local conferences prepared by the ORIC and approved by the competent authority was shared with the members of the FRC.
136. Members of the house appreciated the fact that travel grants for local conferences are being considered. The grants will allow the faculty members to attend such conferences and explore possibilities of networking and collaborations.



137. Chair FRC sought nominations for the FRC standing committee to evaluate the travel grant cases.

Decision

138. The following FRC standing committee was approved to evaluate the travel grant cases for local conferences.
- a. Dean – ES, Head
 - b. HoD – CS, BUIC
 - c. HoD – SE, BUKC
 - d. HoD – CS, BULC
 - e. Dr. Muhammad Zafar, Professor, E&ES, BUIC

Closing Remarks

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

Aug 08, 2019

Prof. Dr. M. Najam-ul-Islam

Chair – FRC, Dean ES