



Meeting Minutes

6th FRC, Faculty of Engineering Sciences

May 30, 2018

1. The 6th meeting of the Faculty Research Committee of the Faculty of Engineering Sciences (FRC-ES) was held on May 30, 2018 in the Video Conference Room, Quaid Block at 0930 hours.

Attendees

2. The meeting was attended by the following:

i.	Dr. M. Najam-ul-Islam	Dean ES, Chair (FRC-ES)
ii.	Dr. Shehzad Khalid	Professor, Director ORIC
iii.	Dr. Amina Jameel	HoD CE Dept., IC
iv.	Dr. Faisal Bashir	HoD CS Dept., IC
v.	Dr. Humera Farooq	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. Tehseen Ullah Khan	HoD EES Dept., IC
x.	Dr. Yasmin Nergis	HoD EES Dept., KC
xi.	Dr. Awais Majeed	HoD SE Dept., IC
xii.	Dr. Sohaib Ahmad	HoD SE Dept., KC
xiii.	Dr. Muhammad Ramzan	Professor, CS Dept, IC
xiv.	Dr. Anzar Alam	ASP, EE Dept., KC
xv.	Dr. Asim Qureshi	ASP, CS Dept., LC
xvi.	Dr. Imran Siddiqi	ASP CS Dept., IC (Secretary FRC-ES)

Opening Remarks

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

Agenda

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

Old Agenda Items

6. There were no old agenda items.

Fresh Agenda Items

Item 6.1 Appointment of Examiners for MS Thesis Defence – CS Department, IC

Discussion

7. HoD CS, IC presented the case of the following students of MSCS and MSTN programs who have submitted their final theses and are ready for the defence. FRC was requested to appoint appropriate internal and external examiners for the candidates.

No.	Name	Supervisor	Program	Thesis Title
1.	Izaz Ahmed (01-243161-010)	Dr. Shagufta Henna	MSCS	Reinforcement learning-based Homogeneous Coexistence Interference Management in Wireless Body Area Network
2.	M. Qasim Tayyab (01-244152-087)	Dr. Kashif Naseer	MSTN	An enhanced energy efficient routing for wireless body area networks
3.	M. Sheheryar Afsar (01-245161-010)	Dr. Kashif Naseer	MSTN	An enhanced geographic routing protocol for vehicular ad hoc networks
4.	Afnan Siddique (01-243162-001)	Dr. Asfandeyar	MSCS	Ontology Model for Web Development Frameworks

Decision

8. Taking into consideration the recommendations of the DRC, FRC approved the following internal and external examiners for the aforementioned students.



No.	Name	Thesis Title	Internal Examiner	External Examiner
1.	Izaz Ahmed (01-243161-010)	Reinforcement learning-based Homogeneous Coexistence Interference Management in Wireless Body Area Network	Dr. Moneeb Gohar	Dr. Rizwan Ahmed
2.	M. Qasim Tayyab (01-244152-087)	An enhanced energy efficient routing for wireless body area networks	Dr. Faisal Bashir	Dr. Amir Habib
3.	M. Sheheryar Afsar (01-245161-010)	An enhanced geographic routing protocol for vehicular ad hoc networks	Dr. Shagufta Henna	Dr. Syed Jawad Hussain
4.	Afnan Siddique (01-243162-001)	Ontology Model for Web Development Frameworks	Dr. Sabina Akhtar	Dr. Mansoor Ahmed

Action by: HoD CS, IC

Item 6.2 Inclusion of Experts in the list of Local External Examiners – CS Department, IC

Discussion

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

Decision

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

No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Khalid Mehmood Awan	Assistant Professor	Comsats, Attock	WiMAX, Wireless Communication, Cellular Communication, MAC
2.	Dr. Saleem Iqbal	Assistant Professor	PMAS-AAUR, Rawalpindi	Wireless Networks, Mesh networks, MAC
3.	Dr. Adnan Akhunzada	Assistant Professor	Comsats, Islamabad	Network Security, SDN, Information Security Management

Action by: HoD CS, IC

Item 6.3 PhD Comprehensive Exam (Mr. Immad Ahmed) -CS Department, IC**Discussion**

11. HoD CS, IC presented the case of the PhD candidate Mr. Immad Ahmed (Enrolment # 01-284162-002) who is registered in the PhD (CS) program and is working under the supervision of Dr. Arif ur Rehman. Mr. Immad completed his coursework in Fall 2017 and appeared in comprehensive exam on 9th March, 2018. Mr. Immad was unable to pass the comprehensive exam in the first attempt. The candidate needs to avail the second chance of passing the comprehensive exam.

Decision

12. FRC approved the case and directed HoD, CS, IC to communicate to the candidate the consequences of not clearing the comprehensive exam in the second attempt.

Action by: Sec., FRC

Item 6.4 Appointment of Examiners for PhD Defense (Mr. Muhammad Taimoor Khan) - CS Department, IC**Discussion**

13. Mr. Muhammad Taimoor Khan (Enrolment # 01-281122-003), is a PhD student in the department of CS, BUIC, and is working under the supervision of Dr. Shehzad Khalid. His title of research is "Lifelong Machine Learning Topic Models for Large-scale Aspect Extraction". Mr. Taimoor has received two positive reviews from foreign examiners. FRC needs to recommend external and internal examiners for the PhD thesis defense of Mr. Taimoor.

Decision

14. Based on the recommendations of the DRC, FRC recommended the following internal and external examiners for the PhD thesis defense of Mr. Muhammad Taimoor Khan.

No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Sumaira Kausar	Assistant Professor (Internal)	Dept. of CS, BUIC	Machine Learning , Image Processing
2.	Dr. Imran Siddiqi	Associate Professor (Internal)	Dept. of CS, BUIC	Pattern Recognition, Image Analysis
3.	Dr. Asifullah	Professor (External)	PIEAS, Islamabad	Machine Learning, Computational Intelligence, Deep Networks
4.	Dr. Waseem Shehzad	Professor (External)	FAST, Islamabad	Machine Learning, Information Systems and Data Mining



5.	Dr. Hammad Afzal	Assistant Professor (External)	MCS-NUST, Islamabad	Data Mining, Semantic Web, Machine Learning
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Action by: HoD CS, IC

Item 6.5 Change of External Examiner, MS Thesis Defense - CS Department, IC

Discussion

15. HoD CS, IC presented the case of Mr. Ramis Ali (01-243161-007), a student of MSCS program in the department. Mr. Ramis submitted his thesis titled "*V-link: A naive approach to link heterogeneous databases*" for evaluation. FRC-04 recommended Dr. Rizwan Bulbul as the external examiner for Mr. Ramis, but he was not available for examination due to a foreign visit. Second examiner recommended by the DRC and presented in the 4th FRC was Dr. Waheed Iqbal. Dr. Waheed moved from CASE Islamabad to PUCIT, Lahore. Therefore he was also not available for examination.
16. DRC appointed Dr. Mansoor Ahmed as the external examiner of Ramis Ali. The details of the examiner are as follows. HoD CS, IC requested the FRC to ratify the appointment.

Name	Area of expertise	Affiliation
Dr. Mansoor Ahmed	Information security and privacy, semantic web technologies	Assistant Professor, CIIT Islamabad, Pakistan

Decision

17. Chair FRC stressed that DRC must ensure that the recommended external examiners are available for the defense prior to recommending their names to the FRC for appointment. The appointment was ratified by the FRC. Dean ES also highlighted that this case should not be used as precedence for other similar cases in the future.

Action by: NIL

Item 6.6 Appointment of Examiners for MS Thesis Defense- CS Department, IC

Discussion

18. HoD CS, IC presented the case of three MS students who had submitted their theses for evaluation but their examiners were not approved from the FRC. 8th DRC appointed the MS thesis defence examiners and approval was obtained from Dean (ES) on file. HoD CS, IC requested the ratification of examiners from the FRC.

Decision

19. FRC ratified the following examination panels. However, similar to Item 6.5, Chair FRC expressed his concerns and advised that approval of examiners must be timely taken in the future.

No.	Name	Program	Supervisor	Thesis Title	Examination Panel
1.	Zeeshan Asghar 01-243152-016	MS(CS)	Dr. Moneeb Gohar	Use of proxy mobile IPv6 for group mobility management in coap-based IOT networks	Dr. Muazzam Khan Khattak Dr. Faisal Bashir
2.	Amin Ullah 01-245161-002	MS(TN)	Dr. Kashif Naseer	An enhanced multiband orthogonal frequency division multiplexing(MB-OFDM) system for WBANs	Dr. Rizwan Ahmed Dr. Shagufta Henna
3.	Ammar Naeem 01-245161-003	MS(TN)	Dr. Moneeb Gohar	Route optimization in content centric networking	Dr. Amir Habeeb Dr. Kashif Naseer

Action by: NIL

Item 6.7 Comprehensive Exam of PhD Candidates – CS Department, IC**Discussion**

20. HoD CS, IC, presented the case of two students of PhD (CS) program who are enrolled in the last semester of course work and are expected to complete the course work by the end of June. Particulars of the students are as follows.

No.	Name	Thesis Title	Supervisor
1.	Rizwan Amir (01-284171-001)	Curation, Management and Analysis of Big Data	Dr. Arif ur Rehman
2.	Aliya Amir (01-284162-003)	Transfer learning in NLP	Dr. Muhammad Muzammil

21. HoD CS, IC, requested the FRC to approve the subjects and examiners for the comprehensive exam of the two candidates.

Decision

22. Subject to the passing of course work, the following subjects and examiners were approved by the FRC for the PhD comprehensive exam of the listed candidates.



No.	Name	Course	Examiner
1.	Rizwan Amir (01-284171-001)	Information Retrieval Techniques	Dr. Arif ur Rehman
		Advanced Bid Data Analytics	Dr. Raja Suleman
		Machine Learning	Dr. Sumaira Kausar
		Advanced Data Mining	Dr. Awais Ahmed
2.	Aliya Amir (01-284162-003)	Machine Learning	Dr. Muhammad Muzammal
		Pattern Recognition	Dr. Imran Ahmed Siddiqi
		Advanced Bid Data Analytics	Dr. Raja Suleman
		Advanced Natural Language Processing	Dr. Muhammad Asfand-e-Yar

Action by: HoD CS, IC

Item 6.8 Comprehensive Exam of PhD Candidates – CE Department, IC

Discussion

23. HoD CE, IC, presented the case of two students of PhD (CE) program, Ms. Amna Waheed, Enrolment No:01-281171-005 and Ms. Zahra Waheed Awan, Enrolment No: 01-281171-006. Both the students are currently enrolled in the third semester and are expected to complete the course work by the end of June. Particulars of the students are as follows.

No.	Name	Program	Supervisor	Thesis Title
1.	Amna Waheed (01-281171-005)	PhD(CE)	Dr. Amina Jameel	Automated Surveillance through Data Fusion Techniques
2.	Zahra Waheed Awan (01-281171-006)	PhD(CE)	Dr. Shehzad Khalid	An Efficient data fusion algorithm for the diagnosis of spinal disorder using X-ray data

24. HoD CE, IC, requested the FRC to approve the subjects and examiners for the comprehensive exam of the two candidates.

Decision

25. Subject to the passing of course work, the following subjects and examiners were approved by the FRC for the PhD comprehensive exam of Ms. Amna Waheed and Ms. Zahra Waheed Awan.



No.	Name	Course	Examiner
1.	Amna Waheed (01-281171-005)	Advanced Digital Image Processing	Dr. Samabia Tehseen
		Advanced Data Mining	Dr. Raja Suleman
		Machine Learning	Dr. Sumaira Kausar
		Pattern Recognition	Dr. Imran Ahmed Siddiqi
2.	Zahra Waheed Awan (01-281171-006)	Advanced Digital Image Processing	Dr. Samabia Tehseen
		Pattern Recognition	Dr. Imran Ahmed Siddiqi
		Bio Medical Image Analysis	Dr. Amina Jameel
		Machine Learning	Dr. Sumaira Kausar

Action by: HoD CE, IC

Item 6.9 Inclusion of Experts in the list of Local External Examiners – CE Department, IC

Discussion

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

Decision

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

No.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Mohammad Haroon Yousaf	Associate Professor	University of Engineering & Technology, Taxila	Image Processing
2	Dr. Ayyaz Hussain	Associate Professor	International Islamic University, Islamabad	Image Processing
3	Dr. Syed Aun Irtaza	Chairman Computer Science and Cyber Engineering Technology	University of Engineering & Technology, Taxila	Computer Vision
4	Hafiz Adnan Habib	Chairman & Associate Professor	University of Engineering & Technology, Taxila	Image Processing

Action by: Sec., FRC

Item 6.10 Appointment of Supervisors/Co-Supervisors - EE Department, IC**Discussion**

28. HoD EE, IC, presented the cases of seven PhD students. The appointment of supervisors/co-supervisors and advisory committees of these students was requested. The concerned students and their proposed titles of research are listed in the following.

No.	Name	Title of Research
1.	Muhammad Hasan Danish Khan (01-281172-001)	Cognitive Radio Sensor Networks
2.	Muhammad Imran Khan (01-281172-002)	Modeling and characterization of Ellipsoid based geometrical channel model using GAUSSIAN Scattering Distribution
3.	M. Umair Alam (01-281172-003)	Adaptive trajectory planning of robotic arm for levitating elastomers
4.	Abdul Rehman (01-281172-004)	Mobility management in VANETs using routing protocol for low power and lossy network.
5.	Faheem Haroon (01-281172-005)	Control Strategy for parallel inverter in Micro Grid.
6.	Syed Umaid Ali (01-281172-006)	Efficient fault diagnosis, prognostic and maintenance algorithm for wind turbines.
7.	Muhammad Waqas (01-281181-001)	Optimization of D2D communication: a potential candidate for next generation communication system.

Decision

29. FRC approved the following supervisors/co-supervisors and advisory committees. Chair FRC expressed his concerns and pointed out that the appointment of supervisors and advisory committees should be carried out immediately after the registration of PhD students.

No.	Name	Supervisor	Co-Supervisor	Advisory Committee
1.	Muhammad Hasan Danish Khan (01-281172-001)	Dr. Muhammad Najam-ul-Islam	-	Dr. Muhammad Najam-ul-Islam Dr. Saleem Aslam Dr. Junaid Imtiaz
2.	Muhammad Imran Khan (01-281172-002)	Dr. Imtiaz Alam	-	Dr. Atif Raza Jafri Dr. Imtiaz Alam Dr. Saleem Aslam
3.	M. Umair Alam (01-281172-003)	Dr. Zeeshan Hameed Khan	Dr. Syed Asim Ali Shah	Dr. Zeeshan Hameed Khan Dr. Syed Asim Ali Shah Dr. Muhammad Aamir
4.	Abdul Rehman	Dr. Faisal Bashir	-	Dr. Faisal Bashir



	(01-281172-004)			Dr. Muhammad Najam-ul-Islam Dr. Moneeb Gohar
5.	Faheem Haroon (01-281172-005)	Dr. Zeeshan Hameed Khan	Dr. Muhammad Amir	Dr. Zeeshan Hameed Khan Dr. Muhammad Aamir Dr. Asad Waqar
6.	Syed Umaid Ali (01-281172-006)	Dr. Zeeshan Hameed Khan	Dr. Muhammad Amir	Dr. Zeeshan Hameed Khan Dr. Muhammad Aamir Dr. Asad Waqar
7.	Muhammad Waqas (01-281181-001)	Dr. Saleem Aslam		Dr. Saleem Aslam Dr. Atif Raza Jafri Dr. Junaid Imtiaz

Action by: HoD EE, IC

Item 6.11 Transfer of Credits, MS Student - EE Department, IC

Discussion

30. HoD EE, IC, presented the case of Mr. Ateeq Ahmed (01-244172-006) who has received admission in MSEE program. The candidate previously studied several courses during his stay in the Electrical Engineering Department, COMSATS Institute of IT, Islamabad, for the MS (EE) degree. However, he left the program without completing the degree requirements from COMSATS.
31. The candidate has requested for transfer of credits. As per BU rules, 50% of the courses can be transferred. The CGPA of the student is 3.15 out of 4 while for credit transfer minimum CGPA of 3.0 is required. Furthermore, GPA of the student in the following courses is also meeting the minimum required GPA of 3.0 as per BU grading system and rules.

Department of EE, COMSATS Islamabad				Department of EE, BUIC			
Course Title	Course Code	Credit Hours	GPA	Equivalent Title	Course Code	Credit Hours	
Power Transmission and distribution	EPE-630	3	3.4	Power Transmission and distribution	EPE-558	3	
Smart grid System Operation	EPE-624	3	3.3	Smart grid System Operation	EPE-754	3	



Decision

32. FRC approved the following transfers of credits for the candidate Mr. Ateeq Ahmed (01-244172-006).
- a. Power Transmission and Distribution
 - b. Smart Grid System Operation
33. HoD CS, IC pointed out that for all transfer cases, departments must ensure that the candidates migrating from other universities have sufficient time to complete the degree within the maximum allowed time as per the policies of BU.

Action by: HoD EE, IC

Item 6.12 Unsatisfactory Progress Reports, PhD Candidate - EE Department, IC

Discussion

34. HoD EE, IC presented the case of PhD candidate Mr. Ahmed Qaddus (01-281131-001). The progress of the candidate has been reported unsatisfactory for the third time consecutively by his supervisor Dr. Saleem Aslam.
35. HoD EE, IC also informed the house that upon receiving two unsatisfactory progress reports from the supervisor, the case was discussed in the DRC meeting. On the recommendation of DRC, student was asked to present his progress in the form of presentation. He presented a progress presentation in front of the following senior faculty members of faculty of Engineering Sciences including HOD-EE.
- a. Dr. Atif Raza Jaffri
 - b. Dr. Imtiaz Alam
 - c. Dr. Zeeshan Hameed Khan
 - d. Dr. Saleem Aslam
 - e. Dr. Faisal Bashir
36. According to the supervisor, the suggested/given tasks in that presentation were not successfully met by the student which resulted in third unsatisfactory progress report.

Decision

37. In accordance with the rules applicable to the candidate, FRC directed the department to ask the candidate to change his research topic and supervisor within a time of two months.

Action by: HoD EE, IC

Item 6.13 Inclusion of experts in the pool of Foreign Evaluators - EE Department, IC

Discussion

38. HoD EE, IC, presented the CVs of four foreign experts from technologically advanced countries for recommendation to HERC to include them in the pool of foreign evaluators.

Decision

39. The following experts were approved by FRC for recommendation to the HERC to include these in the pool of foreign evaluators.

SNO.	Name	Designation	Affiliation	Country	Specialization
1	Jinfu Chen	Associate professor	College of Electrical & Electronic Engineering, HUST	China	Electrical Power System and Its Automation
2	Guangjie Han	Professor	Dalian University of Technology, China	China	Internet of Things, Smart Computing, Green Computing, Cloud Computing.
3	Wei Xiang	Professor	JCU-Huawei Internet of Things Laboratory College of Science and Engineering James Cook University	Australia	Internet of Things, Telecommunications Engineering
4	Jong Weon Lee	Associate Professor	Sejong University, Seoul, Korea, Department of Digital Contents	Korea	Research on augmented reality and tangible interface
5	Saad Me Khilef	Professor	University of Malaya	Malaysia	Power Engineering – Power Electronics and Drives, Renewable energy, Energy Efficiency

Action by: Chair, FRC

Item 6.14 Inclusion of Expert in the pool of Local Examiners - EE Department, IC

Discussion

40. HoD EE, IC presented the CV of Dr. Wajahat Ullah Khan Tareen, Assistant Professor at Department of Electrical Engineering in International Islamic University, Islamabad, Pakistan for inclusion in the pool of local examiners.

Decision

41. FRC approved the inclusion of Dr. Tareen in the pool of local examiners. His details are as follows.

No.	Name	Designation	Affiliation	Research Area(s)
1.	Dr. Wajahat Ullah Khan Tareen	Assistant Professor	International Islamic University,	Power quality, Power conversion techniques, UPS systems, Power



			Islamabad	inverters, Microgrid, Electric vehicles
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Action by: Sec., FRC

Item 6.15 Appointment of Examiners for MS Thesis Defence – EE Department, IC

Discussion

42. HoD EE, IC presented the case of the following MS students who have submitted their final theses and are ready for the defence.

No.	Name	Supervisor	Thesis Title
1.	Bahram Khan 01-244161-020	Dr. Atif Raza Jafri	Flexible hardware implementation of universal Filtered Multi-Carrier Systems.
2.	Muhammad Mateen Shahbaz 01-244161-006	Dr. Atif Raza Jafri	FPGA Implementation of FIR filter for F-OFDM systems.

Decision

43. Taking into consideration the recommendations of the DRC, FRC approved the following internal and external examiners for the aforementioned students.

No.	Name	Thesis Title	Internal Examiner	External Examiner
1.	Bahram Khan 01-244161-020	Flexible hardware implementation of universal Filtered Multi-Carrier Systems.	Dr. Muhammad Najam-ul-Islam	Dr. Yahya Jan
2.	Muhammad Mateen Shahbaz 01-244161-006	FPGA Implementation of FIR filter for F-OFDM systems.	Dr. Imtiaz Alam	Dr. Tassadaq Hussain

Action by: HoD EE, IC

Item 6.16 Comprehensive Exam of PhD Candidates – EE Department, IC

Discussion

44. HoD, EE, IC presented the cases of six PhD students who are in the final semester of course work and are likely to complete the course work in the Spring 2018 semester. FRC was requested to appoint the examiners to conduct the comprehensive exam of the candidates.



Decision

45. Subject to the passing of course work, the following subjects and examiners were approved by the FRC for the PhD comprehensive exam of the listed candidates.

No.	Student Name Enrollment #	Course Name	Examiner
1.	Maryam Iqbal Shah Taizi 01-281171-003	Advanced Nonlinear Control Systems	Dr. Asim Ali Shah
		Modern Control Theory	Dr. Asif Mehmood
		Smart Grid System Operation	Dr. Zeeshan Hameed Khan
		Optimal Sampled Data Control Systems	Dr. Zeeshan Hameed Khan
2.	Badar Ali 01-281171-002	Advanced Power Electronics	Dr. Muhammad Aamir
		Optimal Sampled Data Control Systems	Dr. Asif Mehmood
		Smart Grid System Operation	Dr Zeeshan Hameed Khan
		Modern Control Theory	Dr. Asif Mehmood
3.	M. Umair Alam 01-281172-003	Advanced Power Electronics	Dr. Muhammad Aamir
		Optimal Sampled Data Control Systems	Dr. Asif Mehmood
		Smart Grid System Operation	Dr. Zeeshan Hameed Khan
		Modern Control Theory	Dr. Asif Mehmood
4.	Faheem Haroon 01-281172-005	Advanced Power Electronics	Dr. Muhammad Aamir
		Smart Grid System Operation	Dr. Zeeshan Hameed Khan



		Advanced Topics in Power Systems Engineering	Dr. Asad Waqar
		Advanced Power System Planning	Dr. Atif Jaffri
5.	Syed Umaid Ali 01-281172-006	Advanced Power Electronics	Dr. Muhammad Aamir
		Smart Grid System Operation	Dr. Zeeshan Hameed Khan
		Advanced Topics in Power Systems Engineering	Dr. Asad Waqar
		Advanced Power System Planning	Dr. Atif Jaffri
6.	Abdul Rehman 01-281172-004	Communication Networks Architecture and Protocols	Dr. Junaid Imtiaz
		Advanced Digital Communication Systems	Dr. Saleem Aslam
		Cognitive & Software Defined Radios	Dr. Atif Jaffri
		Advanced Cryptography and Cryptanalysis	Dr. Faisal Bashir

Action by: HoD EE, IC

Item 6.17 Change of Supervisor of PhD (Geophysics) Scholars – EES Department, KC

Discussion

46. HoD, EES, KC presented the cases of three PhD scholars. Mr. Muhammad Jahangir Khan (Registration No. 31405), Mr. Muhammad Irfan (Registration No. 9904) and Ms. Shaista Mehmud (Registration NO. 31406) were enrolled in Geophysics department at Bahria University Karachi Campus since Spring 2016 under supervision of Dr. Mubarak Ali.



47. Dr. Mubarik Ali has retired from Bahria University on January 31, 2018 and has left for Islamabad. He is now residing in Islamabad.
48. The Ph.D. scholars have applied for the change of their supervisor, due the retirement and unavailability of supervisor. They have mentioned in their applications that they are facing a serious problems regarding Ph.D. research work.

Decision

49. On recommendation of DRC, FRC appointed the following supervisors for the three PhD scholars.

SNo.	Student	Supervisor
1	Mr. Muhammad Irfan (Registration No. 9904)	Dr. Salma Hamza
2	Ms. Shaista Mehmud (Registration No. 31406)	Dr. Salma Hamza
3	Mr. Muhammad Jahangir Khan (Registration No. 31405)	Dr. Mehrab Khan

50. HoD EES, IC pointed out that as a function of research themes of the candidates, appropriate co-supervisors should also be appointed for the candidates. Chair FRC suggested that HoDs EES and Islamabad and Karachi campuses should discuss this matter and present the case for the appointment of co-supervisors in the next FRC.
51. Chair FRC also pointed out that such cases should be timely presented in the FRC (this agenda item should have been presented in the 5th meeting of FRC held in Feb 2018) so that research work of the candidates does not suffer.

Action by: HoD EES, KC

Item 6.18 Change of Supervisor & Continuation of PhD from overseas - EES Department, KC

Discussion

52. Mr. Muhammad Irfan (Registration No. 44138) was enrolled in Ph.D. at the Geophysics Department, Bahria University Karachi Campus under the supervision of Dr. Mubarik Ali.
53. Mr. Muhammad Irfan has moved to overseas with his family and currently he is residing in Australia. He wants to continue his Ph.D. work while residing in Australia. He has applied for the change of supervisor due to the retirement of Dr. Mubarik Ali and also requested to allow him for continuing the Ph.D. while residing in Australia.



Decision

54. Members of FRC pointed out that there is no provision of a remote PhD in the rules of Bahria University. Chair FRC directed the department to respond to the application of the candidate in accordance with the existing policies of BU and also inform the PGP Directorate/Registrar office accordingly.

Action by: HoD EES, KC

Item 6.19 Change of supervisor of PhD Scholar (Environmental Sciences) - EES Department, KC

Discussion

55. HoD EES, KC presented the case of Mr. Muhammad Irfan (Registration No. 27198) who was enrolled at the Department of Environment Sciences, Bahria University Karachi Campus since Fall 2014 under supervision of Dr. Mubarik Ali. Dr. Mubarik Ali has retired from Bahria University on January 31, 2018 and left Karachi. He is now residing in Islamabad.
56. The Ph.D. Scholar has applied for the change of supervisor, due the retirement of his supervisor. Mr. Muhammad Irfan is presently serving in Naval Headquarters at Islamabad and coming to Karachi for Ph.D. research work is very difficult for him. He wants to have a supervisor from the department of Earth & Environmental Sciences Bahria University Islamabad.

Decision

57. HoDs EES at Islamabad and Karachi campuses presented their views on the case. The house, however, could not arrive at a decision. It was therefore decided that the relevant HoDs at the two concerned departments will deliberate on the matter and recommend appropriate supervisor(s).

Action by: HoD EES, KC

Item 6.20 Distribution of Marks – MS Theses

Discussion

58. HoD, CS, BULC presented the agenda item for change of distribution of marks for the evaluation of MS theses in the Engineering programs. It was suggested that in order to have a good finished product and monitor continuous progress, different activities, like Research Proposal Document submission, Proposal Defense, Quarterly Research Progress Reports, etc., should be given some weightage in terms of marks.



Decision

59. Members of the house presented their views on distributing the marks for evaluation of MS theses. It was pointed out that presently there exists a mechanism to monitor the progress of the candidates in the form of progress reports. If followed in true spirit, the quality of final product can be ensured through the existing mechanisms as well.
60. It was decided not to change the current mechanism for evaluation of MS theses and the agenda item was dropped.

Action by: NIL

Item 6.21 Access Rights for PGP Coordinators in the CMS

Discussion

61. HoD CS, LC pointed out that PGP coordinators presently do not have any specific access rights in the CMS. PGP Coordinators should have rights of different views as well as registration etc. in CMS for a better student management.

Decision

62. Members of the house pointed out that in some of the departments, PGP Coordinators do have additional access rights in the CMS. However, this is not consistent across all the departments.
63. The house agreed that all PGP Coordinators should have additional rights in the CMS. Chair FRC directed the departments to initiate the request for additional access rights through Dean (ES)/PGP Directorate.

Action by: Concerned HoDs

Item 6. 22 Comprehensive Exam of PhD Candidates –CS Department, KC

Discussion

64. HoD CS, KC, presented the case of the following PhD scholars for the conduct of PhD comprehensive exam.



S. No	Intake	Name	Supervisor/ Co Supervisor	Courses Taken
1	Fall 2017	Ms. Sameena Javeed 02-284172-002	Dr. Safdar Ali Dr. Humera Farooq	<ul style="list-style-type: none">• Computer Vision• Machine Learning• Advanced Digital Image Processing• Advanced Topics in Wireless Networking and Communications• Cloud Computing
2	Fall 2017	Mr. Muzammil Ahmed Khan 02-284172-001	Dr. Safdar Ali	<ul style="list-style-type: none">• Advanced Topics in Wireless Networking and Communications• Cloud Computing• Advanced Data Warehousing• Advanced Digital Image Processing• Advanced Human Computer Interaction

Decision

65. FRC approved the following courses and examiners for the comprehensive exam of the listed PhD candidates.

No.	Name	Course	Examiner
1.	Ms. Sameena Javeed 02-284172-002	Computer Vision	Dr. Anzar Alam
		Machine Learning	Dr. Humera Farooq
		Advanced Topics in Wireless Networking and Communications	Dr. Safdar Ali
		Cloud Computing	Dr. Ghulam Muhammad
2.	Mr. Muzammil Ahmed Khan 02-284172-001	Advanced Topics in Wireless Networking and Communications	Dr. Safdar Ali
		Cloud Computing	Dr. Ghulam Muhammad
		Advanced Data Warehousing	Dr. Humera Farooq
		Advanced Human Computer Interaction	Dr. Sohaib Ahmed

Action by: HoD CS, KC



Item 6.23 Inclusion of Experts in the list of Local External Examiners – CS Department, KC

Discussion

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

Decision

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

No.	Name	Designation	Affiliation	Research Area(s)
1	Dr. Najeed Ahmed Khan	NED University of Engineering & Technology Karachi	Associate Professor	Artificial Intelligence, Computer Vision
2	Dr. Humera Tariq	Karachi University	Assistant Professor	Brain Computing
3	Dr. Noman Islam	Iqra University	Associate Professor	Cloud Computing Deep Learning Machine Learning
4	Prof. Dr. Aqeel ul Rehman	Hamdard University	Professor	Ubiquitous Computing, (IoT, WSN, and WBAN)

Action by: Sec., FRC

Item 6.24 PhD Proposal Defense – CS Department, KC

Discussion

68. HoD CS, KC presented the case of PhD scholar Mr. Adnan Abdullah (Enrolment # 02-284162-002) who has passed his comprehensive exam in Fall 2017 and is now preparing for his PhD proposal defence. FRC needs to appoint the panel of examiners to conduct the proposal defense of the candidate. The particulars of the candidate are as follows.

S. No	Intake	Name	Supervisor	Thesis Title
1	Fall 2016	Mr. Adnan Abdullah 02-284162-002	Dr. Safdar Ali	Wireless Network Virtualization in 5G Networks



Decision

69. FRC appointed the following panel to conduct the PhD proposal defense of Mr. Adnan (02-284162-002).

- a. Dr. Haroon Rasheed – BUKC (Internal Examiner)
- b. Dr. Asif Aziz – Sir Syed University, Karachi (External Examiner)
- c. Dr. Muhammad Bilal Khan – PNEC-NUST, Karachi (External Examiner)

Action by: HoD CS, KC

Item 6.25 Ratification of Change of External Examiner, MS Thesis Defense – CS Department, KC

Discussion

70. HoD CS, KC presented the case of Mr. M. Noman Khalid (Enrolment# 02-243161-010) whose final thesis defense was due in February 2018. The approved external examiner Dr. Sufian Hameed regretted to evaluate his thesis due to his busy schedule.

71. The case was sent to Dean (ES) for appointing of Dr. Asif Aziz as an external examiner of the candidate. Dr. Aziz was the 2nd proposed examiner by the DRC.

72. The said changes were approved by the Dean (ES) on file. FRC is requested to ratify the appointment.

Decision

73. Similar case was also presented by the department of CS, IC. FRC ratified the appointment but the Chair FRC reiterated that such cases must be avoided in the future.

Action by: NIL

Item 6.26 Inclusion of Experts in the list of Local External Examiners – SE Department, IC

Discussion

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

Decision

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



S#	Name	Designation	Affiliated University/Institute	Specialization
1	Dr. Khurram Shehzad	Professor/ Associate Dean	Faculty of Management Sciences, Riphah International University	HRM
2	Dr. Murtaza Mir	Assistant Professor	CASE	Engineering Management
3	Dr. Mansoor Ahmed	Assistant Professor	COMSATS University, Islamabad	Semantic Web
4	Dr. Inayat ur Rehman	Assistant Professor	COMSATS University, Islamabad	e-Learning / Mobile based learning
5	Dr. Mohammad Anwar	Assistant Professor	UET Taxila	Medical Image Processing
6	Dr. Sheraz Akram	Assistant Professor	Foundation University, Rawalpindi	Medical Image Processing
7	Dr. Farhan Hussain	Assistant Professor	EME NUST	Nerual Networks, Deep Learning, Machine Learning

Action by: Sec., FRC

Item 6.27 Appointment of Examiners for PhD Defense - SE Department, IC

Discussion

76. Ms. Samina Khalid (Enrolment# 01-281121-002) and Ms. Tehmina Khalil (Enrolment# 01-281121-003) are enrolled in the PhD (SE) program. Both the candidates have completed the requirements for their PhD defense. Department has received the foreign evaluation reports and changes have been incorporated.

77. FRC needs to recommend external and internal examiners for the PhD thesis defense of the two candidates

Decision

78. Based on the recommendations of the DRC, FRC recommended the following internal and external examiners for the PhD thesis defense of the two candidates.



SNo.	Name	Supervisor	Internal Examiners	External Examiners
1	Samina Khalid 01-281121-002	Dr. Amina Jameel	1. Dr. Shahzad Khalid 2. Dr. Samabia Tehseen	1. Dr. Ayyaz Hussain, IIU Islamabad 2. Dr. Syed Aun Irtiza, UET Taxila 3. Dr. Khawar Khurshid, SEECs-NUST
2	Tehmina Khalil 01-281121-003	Dr. Amina Jameel	1. Dr Imran Siddiqi 2. Dr. Humera Farooq (BUKC)	1. Dr. Khawar Khurshid, SEECs, NUST 2. Dr. Mohammad Anwar, UET Taxila 3. Dr. Farhan Riaz, EME NUST

Action by: HoD SE, IC

Item 6.28 Comprehensive Exam of PhD Candidates – SE Department, IC

Discussion

79. HoD SE, IC, presented the case of PhD candidate Mr. Adil Nazir (Enrolment No: 01-281171-004) who is enrolled in the last semester of course work and is likely to clear the course work by the end of Spring 2018 semester.
80. HoD SE, IC, requested the FRC to approve the subjects and examiners for the comprehensive exam of the candidate.

Decision

81. Subject to the passing of course work, the following subjects and examiners were approved by the FRC for the PhD comprehensive exam of Mr. Adil Nazir.

No.	Name	Course	Examiner
1.	Adil Nazair 01-281171-004	Ontology Engineering	Dr. Muhammad Asfand-e-Yar
		Advanced Natural Language Processing	Dr. Raja Suleman
		Machine Learning	Dr. Sumaira Kausar
		Information Retrieval Techniques	Dr. Awais Ahmed

Action by: HoD SE, IC

Item 6.29 Appointment of Examiners: PhD Proposal Defense—SE, Department, IC**Discussion**

82. HoD SE, IC presented the case of the following PhD candidates who have cleared the comprehensive exam and are ready to appear for the PhD proposal defense.

SNo.	Name	Supervisor	CGPA	Comprehensive Exam Date	Result Notifications
1.	Fahad Reyaz (01-281152-001)	Dr. Shahid Nazir Bhatti	3.07	31 August, 2017	29 September, 2017
2	Farrukh Shahzad Ahmed (01-281162-001)	Dr. Shahid Nazir Bhatti	3.58	31 August, 2017	29 September, 2017

83. On recommendation of DRC, FRC appointed the following internal and external examiners for the PhD Proposal defense of the listed candidates.

SNo.	Name	Title	Internal Examiner	External Examiner
1	Fahad Reyaz (01-281152-001)	Enabling Identity and Access Management Requirements Traceability in Cloud Computing for DbaaS	Dr Awais Majeed	<ul style="list-style-type: none">• Dr. Irfan ul Haq• Dr Malik Ahmad Kamran
2	Farrukh Shahzad Ahmed (01-281162-001)	Applications of Business-Centric Regression Testing for Business Software Applications	Dr Tamim A Khan	<ul style="list-style-type: none">• Dr Mudassar Azam Sindhu• Dr Asim Noor

Action by: HoD SE, IC

Item 6.30 Cancellation of Candidacy of PhD Candidate—SE, Department, IC**Discussion**

84. HoD SE, IC presented the case of Ms. Maryam Akhtar Kiyani (Enrolment# 02-281142-002) who was supposed to appear for PhD proposal defence in August 2017. However she did not appear in the proposal defence due to her service commitments. Her time to clear the defence was already extended by the 3rd FRC as she had frozen one of the semester after clearing comprehensive exam. Since then, she has not contacted the department and has not informed about her status.



85. HoD SE, IC recommended that the candidate may be dropped from the program according to the rules of the university.

Decision

86. In accordance with the PhD Rules 2017, Para 25.7, FRC approved that the candidate Ms. Maryam Akhtar Kiyani (Enrolment# 02-281142-002) may be dropped from the PhD program. HoD SE, IC to initiate the case on file and refer the case to the PGP Directorate for seeking approval of the HERC/Rector.

Action by: HoD SE, IC

Item 6.31 Cancellation of Candidacy of MS Geology Students—EES, Department, IC

Discussion

87. The research supervisors of two students of MS Geology program have submitted three unsatisfactory progress reports to the department. The particulars of the students are as follows.

S#	Name of Student	Enrollment #	Program
1.	Amir Riaz	01-262142-019	MS Geology
2.	Khawaja Aftab Ahmed	01-262142-023	MS Geology

88. The student were informed by the department to present themselves in front of DRC on 25th October, 2017 and give reasons for the un-satisfactory progress. The students appeared in front of DRC and accepted their non-seriousness and committed to submit their theses by 15th November, 2017.

89. HoD EES, IC informed the house that none of the two students has submitted the thesis to the supervisors, therefore, due to non-compliance, the case is being forwarded to FRC for the Cancellation of Candidacy and 'Drop' the students from the degree program.

Decision

90. In accordance with the MS/MPhil Rules, para 24.7.2, FRC approved that the following candidates be dropped from the degree program.

S#	Name of Student	Enrollment #	Program
1.	Amir Riaz	01-262142-019	MS Geology
2.	Khawaja Aftab Ahmed	01-262142-023	MS Geology

Action by: HoD EES, IC



Item 6. 32 Appointment of Advisory Committees for PhD Geology and PhD Environmental Sciences Candidates -- EES Department, IC

Discussion

91. HoD EES, IC, presented the cases of candidates enrolled in the PhD Geology and PhD Environmental Sciences Programs of the Fall 2017 intake. Advisory Committee members of these students were nominated in the DRC meeting held on 24th April 2018. HoD EES, IC requested to FRC to approve the advisory committees of the presented candidates.

Decision

92. FRC approved the following advisory committees of the listed PhD candidates.

S#	Name Of Student	Adv. Committee	Program
1.	Muhammad Nofal Munir 01-286172-001	1. Prof. Dr. Muhammad Zafar 2. Dr. M. Iqbal Hajana 3. Dr. Lamuail Bashir (LMKR)	PhD Geology
2.	Furqan Aftab 01-286172-003	1. Prof. Dr. Muhammad Zafar 2. Dr. M. Iqbal Hajana 3. Dr. Quaid Khan Jadoon (James Cook University, Queensland, Australia)	PhD Geology
3.	Adil Naseer 01-286172-004	1. Prof. Dr. Tahseenullah Khan 2. Dr. Abid Ali 3. Dr. Mirza Naseer Ahmad (Nusrat Jehan College)	PhD Geology
4.	Adeeb Ahmed 01-286172-005	1. Prof. Dr. Tahseenullah Khan 2. Dr. Nosheen Sahir 3. Dr. Samina Jehandad (Hydrocarbon Development Institute of Pakistan)	PhD Geology
5.	Muhammad Asif Khan 01-286172-007	1. Prof. Dr. Tahseenullah Khan 2. Dr. Muhsan Ehsan 3. Dr. Aamir Ali (Quaid e Azam University)	PhD Geology
6.	Aneela Khan 01-286172-007	1. Dr. Humera Farah 2. Dr. Said Akbar Khan 3. Dr. M. Hanif, (Pakistan Meteorological Department)	PhD ES
7.	Muhammad Saqib Ali 01-286172-007	1. Dr. Humera Farah 2. Dr. Aansa Rukya Saleem 3. Dr. Zia Hashmi, (Global Change Impact Studies Centre)	PhD ES
8.	Zainab Wahab 01-286172-007	1. Dr. Humera Farah 2. Dr. Asma Jamil 3. Dr. Imran Khalid (Sustainable Development Policy Institute)	PhD ES



9.	Waqar Ali 01-286172-007	1. Dr. Said Akbar Khan 2. Dr. Humera Farah 3. Dr. Ashiq Muhammad (Retd. National Agricultural Research Centre)	PhD ES
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Action by: HoD EES, IC

Item 6.33 Addition of Examiners to pool of Local External Examiners (PG Programs) – EES Department, IC

Discussion

93. HoD EES, IC presented the CVs of local experts to add them to the pool of external examiners.

Decision

94. The following experts were added to the pool of local external examiners.

S No.	Name	Affiliation	Designation	Research Areas
1.	Dr. Muhammad Mujtaba	HDIP (Retd.)	Chief Geologist HDIP (Retd.)	Geology
2.	Dr. Aamir Ali	Earth Sciences Department, Quaid-e-Azam University	Assistant Professor,	Geophysics
3.	Dr. Shahid Nadeem Qureshi	Department of Meteorology, COMSATS Islamabad	Advisor/Associate Professor,	Geophysics
4.	Dr. Suleman Khan	Department of Geology, University of Peshawar	Assistant Professor,	Geology
5.	Dr. Mirza Naseer Ahmad	Abdus Salam School Of Sciences, Nusrat Jahan College	Hod, Earth Sciences Department,	Geophysics
6.	Dr. Zulfiqar Ahmad	Quaid-e-Azam University (Retd.)	Professor (Retd.)	Geophysics
7.	Dr. Birkez Aslam Shami	Dewan Petroleum (Retd.)	General Manager Drilling Operations	Geology
8.	Dr. Shazia Asim	Earth Sciences Department,	Assistant Professor,	Geophysics



		Quaid-e-Azam University		
9.	Dr. Muhammad Gulraiz Akhter	Earth Sciences Department, Quaid-e-Azam University	Professor	Geophysics
10	Dr. Nadeem Ahmed	MOL Pakistan	Director Exploration and Reservoir,	Geology
11	Dr. Anwar Qadir	Department of Geology, University of Haripur	HOD, Department of Geology	Geology
12	Dr. Abid Ahmad	PIEAS, Nilore, Islamabad	Chief Geologist	Geology
13	Dr. Mumtaz Muhammad Shah	Department of Earth Sciences, Quaid e Azam University, Islamabad	Assistant Professor	Geology
14	Dr. Waqas Ahmed	N.C.E. in Geology, University of Peshawar	Assistant Professor	Geotechnical Engineering
15	Dr. Asghar Ali	Department of Geology, University of Peshawar	Associate Professor	Geology

Action by: Sec., FRC

Item 6.34 Appointment of Examiners for PhD Proposal Defense – EES, Department, IC

Discussion

95. HoD EES, IC presented the case of following PhD candidates who have passed the comprehensive exam and will be defending their research proposals.

SNo.	Name (Enrollment #)	Program	Research Title
1.	Muhammad Raiees Amjad 01-286162-001	PhD Geology	Causes of Pressure Reversals in Neogene Sediments, Eastern Potwar, Pakistan
2.	Saqib Mehmood 01-286162-002	PhD Geology	Evolution of the Precambrian Crust Exposed in Sargodha Area, Punjab, Pakistan
3.	Masood Anwar 01-286162-003	PhD Geology	Physico-Mechanical Assessment of Selected Carbonate Rocks of Northern Pakistan



Decision

96. On recommendation of DRC, FRC appointed the following internal and external examiners for the PhD Proposal defense of the listed candidates.

SNo.	Name (Enrollment #)	Program	Internal Examiners	External Examiners
1	Muhammad Raiees Amjad 01-286162-001	PhD Geology	Dr. M. Iqbal Hajana	Dr. Aamir Ali (Quaid-e-Azam University) Dr. Lamuail Bashir (LMKR)
2	Saqib Mehmood 01-286162-002	PhD Geology	Prof. Dr. Muhammad Zafar	Dr. Mumtaz Muhammad Shah (Quaid-e-Azam University) Dr. Abid Ahmad (Pakistan Institute of Engineering and Applied Sciences)
3	Masood Anwar 01-286162-003	PhD Geology	Dr. Abid Ali	Dr. Waqas Ahmed (University of Peshawar) Dr. Asghar Ali (University of Peshawar)

Action by: HoD EES, IC

Item 6.35 Change of Supervisor: PhD Candidate - EE Department, KC

Discussion

97. HoD EE, KC presented the case of PhD candidate Mr. Tahir Abbasi (Enrolment # 02-281151-003) who passed his comprehensive exam in Spring 2017 and he was working with Dr. Naveed Khan. Dr. Naveed is on EOL from Bahria University and the proposal defence of the candidate is still pending. Dr. Anzar informed the DRC that he is willing to supervise Mr. Tahir and is willing to hire him for his HEC funded project. Approval from FRC is requested for a change of supervisor of Mr. Tahir Abbasi.

Decision

98. Chair FRC expressed his concerns on the fact that the case was presented very late in the FRC. HoD EE, KC to move this case on file and seek a time of six months for the candidate to clear his proposal defense.

Action by: HoD EE, KC



Item 6.36 PhD Proposal Defense– EE Dept., KC

Discussion

99. HoD EE, KC, presented the case of PhD candidate Mr. Najmus Saqib who cleared his comprehensive exams in Spring 2017, however, due to domestic issues and leaving of his supervisors (First Dr. Murtaza Ali left for the UK and second Dr. Naveed left BUKC) from Bahria University his Ph.D. proposal defence is still in pending. Dr. Najam Amin expressed his willingness to act as his co-supervisor while Dr. Anzar Alam will act as Principal supervisor due to HEC restriction.

Decision

100. This case was similar to the previous one. Chair FRC asked HoD EE, KC to move this case on file seeking a time of six months for the candidate to clear his proposal defense.

Action by: HoD EE, KC

Item 6.37 Appointment of Advisory Committee, PhD Candidate– EE Department, KC

Discussion

101. HoD EE, KC, presented the case of PhD candidate Engr. Naveen Irtiza (Enrolment # 02-281131-001) whose advisory committee needs to be approved by the FRC.

Decision

102. Chair FRC expressed his concerns that appointment of supervisors and advisory committees should be sought within time from the FRC. The following advisory committee was approved for the candidate.

SNo.	Name	Title of Research	Principal Supervisor	Advisory Committee
1.	Engr. Naveen Irtiza 02-281131-001	Assessment of Neural Correlates of Neuroception using Machine Learning Techniques	Dr. Humera Farooq	Dr. Humera Farooq Dr. Anzar Alam (Internal) Dr. Imran Naseem (External)

Action by: HoD EE, KC



Item 6.38 Appointment of Examiners MS Thesis Defence– EE Department, KC

Discussion

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

S. No	Name	Program	Thesis Title
1.	Mr.Saad Khan 02-244171-005	MS EE	IMAGE PROCESSING BASED FIRE SMOKE DETECTION
2.	Mr. Fahad Ashraf 02-244171-002	MS EE	MODELING OPTIMIZATION OF THERMOELECTRIC POWER SYSTEM USING BIOMASS FEEDSTOCK
3.	Mr. Rashid ul Khairi 02-244171-001	MS EE	FINE GRAINED VEHICLE CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS
4.	Mr. Usman Saeed 02-244162-006	MS EE	ACQUIRING OF IMAGES OPTICAL PROPERTIES TO INCREASE THE ACCURACY
5.	Mr. Zohair Hussain 02-244162-005	MS EE	3D IMAGE ACQUIRING TECHNIQUE IN THE MEASUREMENT ACCURACY
6.	Mr. Ronak Baladi 02-244171-004	MS EE	SMART METROPOLITAN STREETLIGHT SCHEME WITH SOLAR TRACKERS AND GRID CONNECTION

Decision

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

S. No	Name	Program	Thesis Title	Examination Committee
1.	Mr.Saad Khan 02-244171-005	MS EE	IMAGE PROCESSING BASED FIRE SMOKE DETECTION	Dr. Anzar Alam (Internal) Dr. Bilal Kadri (External)
2.	Mr. Fahad Ashraf 02-244171-002	MS EE	MODELING OPTIMIZATION OF THERMOELECTRIC POWER SYSTEM USING BIOMASS FEEDSTOCK	Dr. Haroon Rasheed (Internal) Dr. Ghous Bux (External)
3.	Mr. Rashid ul Khairi 02-244171-001	MS EE	FINE GRAINED VEHICLE CLASSIFICATION USING CONVOLUTIONAL NEURAL NETWORKS	Dr. Humera Farooq (Internal) Dr. Farah Haroon (External)



4.	Mr. Usman Saeed 02-244162-006	MS EE	ACQUAIRING OF IMAGES OPTICAL PROPERTIES TO INCREASE THE ACCURACY	Dr. Muhammad Raza (Internal) Dr. Ghazanfar Monir (External)
5.	Mr. Zohair Hussain 02-244162-005	MS EE	3D IMAGE ACQUIRING TECHNIQUE IN THE MEASUREMENT ACCURACY	Dr. Najam Amin (Internal) Dr. Imran Naseem (External)
6.	Mr. Ronak Baladi 02-244171-004	MS EE	SMART METROPOLITAN STREETLIGHT SCHEME WITH SOLAR TRACKERS AND GRID CONNECTION	Dr. Najam M. Amin (Internal) Dr. Talat Altaf (External)

Action by: HoD EE, KC

Item 6.39 Inclusion of Experts in the list of Foreign Evaluators

Discussion

105. HoD EE, KC presented the CVs of three experts from technologically advanced countries for recommendation to HERC to include them in the pool of foreign evaluators.

Decision

106. The following experts were approved by FRC for recommendation to the HERC to include these in the pool of foreign evaluators.

S No.	Name	Institute /Country	Area of Specialization	Contact Info
1.	Prof. Mathew Dailey	SET/ICT Asian Institute of Technology Thailand	Machine Learning Artificial Intelligence, Computer Vision, Software Engineering	mdailey@ait.asia http://vgl-ait.org/mdailey Phone: +66 2 524 5712
2.	Prof. Guoying Zhao	University of Oulu/ Finland	Machine Vision and Signal Analysis,	Phone: +358 294487564 guoying.zhao@oulu.fi http://www.ee.oulu.fi/~gyzhao/

3.	Dr. Yiming Deng	MSU, USA	Electromagnetic & Acoustic Research Imaging and Sensing; Damage Diagnostics & Prognostics and Health Management;	Phone: (517) 432-0492 dengyimi@egr.msu.edu www.egr.msu.edu/deng/
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Action by: Chair, FRC

Item 6.40 Policy on Plagiarism – PhD Rules

Discussion

107. Secretary FRC presented the agenda item related to the PhD Rules of the University regarding Plagiarism policy. The PhD rules 2017 are effective from Fall 2017 semester. Clause 28.3, relevant to plagiarism test states:

“The overall similarity of the thesis shall not exceed 19% and the similarity from a single source shall not exceed 5%, including scholar’s publication”.

108. This clause is not only unjustified but also contradicts the HEC guidelines to interpret the similarity index of a report. Sec. FRC referred to the following clauses from HEC guidelines to interpret the similarity reports.

“If the report has similarity index $\leq 19\%$, then benefit of doubt may be given to the author but, in case, any single source has similarity index $\geq 5\%$ without citation then it needs to be revised.”

“If similarities of a report are from author's own (previous) work then these may be ignored only if the material has been cited by the author.”

109. It is clearly stated that any source (other than author) can have a similarity score of more than 5% if it is cited. Furthermore, author’s own work can be ignored if the material is cited by the author.

110. Research publications resulting from PhD thesis work represent technical contributions which eventually integrate to comprise the overall research contributions. It is



very much natural that a research thesis presents the contributions and results which are published during various stages of PhD research. Even if the text is rephrased, it is impossible, rather meaningless, to change the quantitative results. The results reported in a thesis document are naturally the same as reported in the publications of the candidate.

111. Members of FRC provided their view points on this matter and agreed that HEC Policy on this matter should be adopted so that PhD students do not face any difficulties when registering with HEC after their final defense.

Decision

112. HEC Policy on Plagiarism to be adopted and PhD Rules of University on this matter to be carefully rephrased/documented.

Action by: Director PGP

Item 6.41 Mechanism for Utilization of Research Funds

Discussion

113. Secretary FRC presented the agenda item related to the utilization of research fund that is allocated for UG, MS and PhD research students for purchase of equipment, specialized hardware, laptops etc.
114. PhD students, for instance, can avail a fund of up to PKR 100,000/-. However, there is no defined policy on acceptance/rejection of funding applications. The accounts department is also reluctant to release the funds once such an application is initiated. The decision on an application is therefore not based on any defined mechanism.

Decision

115. The house agreed that a comprehensive SOP should be prepared for utilization of research funds by UG and PG students. ORIC will prepare the said policy with comments from all stakeholders.

Action by: Director ORIC



Closing Remarks

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

A handwritten signature in black ink, consisting of stylized letters and a long horizontal stroke.

July 5, 2018

Prof. Dr. M. Najam-ul-Islam

Chair – FRC, Dean ES