**DEPARTMENT OF MECHANICAL ENGINEERING**

**UNIVERSITY OF ENGINEERING AND TECHNOLOGYTAXILA**

**Minutes of Meeting of Board of Post-Graduate Studies, held on 30.12.2020 at 10:00am**

**In the conference room of Mechanical Engineering Department**

Following were present:

* 1. Prof. Dr. Riffat Asim Pasha (In Chair)
	2. Prof. Dr. M. Zubair Khan (External Member)
	3. Dr. Ajaz Bashir Janjua (External Member)
	4. Prof. Dr. Athar Masood (External Member)
	5. Dr. Azhar Munir (External Member)
	6. Dr. Muhammad Ali Nasir (Director PGS)
	7. Dr. Muzaffar Ali (Invited Member)
	8. Dr. Muhammad Shehryar (Invited Member)

Meeting started with the name of Allah Al-mighty.

**Item No. 1. Post-graduate research seminar (Final Progress Report)**

Following students presented their progress report of M.Sc. Research.

1. Board recommended the final progress report of below mentioned scholar and allowed her to appear for her final viva. Panel of external examiners is also recommended.

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| **Name of Scholar & Reg.** | **Muhammad Rizwan 16-MS-FT-TSE-12** |
|  **Supervisor** | Dr. Syed Nasir Shah |
| **Thesis Title** | System Design/Analysis for Optimal Utilization of Cleanroom Environment Control System (CECS) |
| **Panel for External Viva** | 1. **Dr. Mansoor ul Hassan**, Lecturer UET Peshawar.
2. **Dr. Muhammad Imran Ahmad**, Associate Prof. UET Peshawar.
3. **Dr. Amjad Farooq**, Associate Prof. Pakistan Institute of Engineering & Applied Sciences, Islamabad.
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1. Board recommended the final progress report of below mentioned scholar and allowed him to appear for his final viva. Panel of external examiners is also recommended.

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| **Name of Scholar & Reg.** | **Mobeen Azhar Siddique 17-MS-FT-EnE-13** |
|  **Supervisor** | Prof. Dr. Muhammad Shahid Khalil |
| **Thesis Title** | Impact of Renewal Energy on Smart Grid in Pakistan |
| **Panel for External Viva** | 1. **Dr. Ajaz Bashir Janjua**, Deputy General Manager, HMC Taxila.
2. **Dr. Khalid Akhtar**, Associate Professor, NUST Islamabad.
3. **Dr. Chaudhary Akram Ali**, WAPDA Islamabad.
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**Item No. 2. Topic Approvals**

Board recommended the Research Topics and Supervisor for MSc Thesis against following Scholars.

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| **Sr. No.** | **Student Name** | **Supervisor** | **Research Topics** |
| 1 | Asad Yousaf18-MS-PT-AMD-18 | Prof. Dr. Riffat Asim Pasha | To Investigate the Effect of Filler Materials on Mechanical Properties of Shielded Metal Arc Welded AISI 316L Austenitic Stainless Steel Joints. |
| 2 | Muhammad Ali19-MS-ME-TSE-01 | Dr. Azhar Hussain | Design and Structural Analysis of Non-Pneumatic Tyres for Different Structures of Polyurethane Spokes.  |
| 3 | Hamza Sajjad19-MS-ME-TSE-28 | Dr. Syed Nasir Shah | Biodiesel Production from Non-Edible Waste Cooking Oil using SrO-MnO/Ceramic.  |
| 4 | Ammar Nasir18-MS-PT-P&G-03 | Dr. Syed Nasir Shah | Production of Biodiesel from Chicken Fat using Heterogeneous Catalyst via Multiple Methods.  |
| 5 | Qaiser Azim18-MS-PT-TSE-12 | Dr. Shahid Mehmood | To Investigation Thermal Conductivity of Phase Change Material by Incorporating Surfactants. |
| 6 | Zeeshan Ahmed Siddique18-MS-PT-AMD-23 | Dr. Aneela Wakeel | Improving Anti-Corrosion and Mechanical Properties of Mild Steel Pipelines by using Polyurea with Nano Particles.  |
| 7 | Muhammad Ammar18-MS-PT-AMD-03 | Dr. Aneela Wakeel | To Investigate the Fiber Reinforcement Effect on Mechanical and Thermal Properties of Silica Aerogel using Ambient Pressure Drying Technique. |
| 8 | Soban Qamar18-MS-PT-P&G-04 | Dr. Syed Nasir Shah | Implementation of Novel Ionic Liquid for the Production of Biodiesel through Microbubble Reactor. |
| 9 | Hassan Ali17-MS-PT-P&G-18 | Dr. Rizwan Ahmed | Synthesis and Characterization of Bi Based Piezoelectric Nano Generator for Energy Harvesting Application.  |
| 10 | Shoaib Ahmed18-MS-PT-AMD-21 | Engr. Rana Atta ur Rehman | Process Optimization of Friction Stir Welding of Aluminum Alloy to Find the Joint Efficiency. |
| 11 | Kashif Ayaz18-MS-PT-AMD-02 | Dr. Muhammad Shehryar | Energy Harvesting from a Symmetric Airfoil Under Varying Load Conditions. |
| 12 | Muhammad Arqam19-MS-ME-AMD-02 | Dr. Muhammad Shehryar | Dynamic & Acoustic Response Analysis of Symmetrical Airfoil in a Non-linear Structural Environment. |
| 13 | Ali Haider16-MS-PT-AMD-11 | Dr. Azhar Hussain | Investigation the Effects of Cr, Ti and Al based Hard Coatings on Tribological Properties of Stainless Steel. |
| 14 | Muhammad Islam Nabi17-MS-PT-ENE-14 | Dr. Muzaffar Ali  | Techno-Economic Assessment of Interlocking Energy Efficient Bricks (IEEB) for Energy Efficient Buildings |
| 15 | Hamza Zahoor19-MS-ME-TSE-17 | Dr. Syed Nasir Shah | Production of Bio-Diesel from Waste Cooking Oil with Application of Ti/La Catalyst based Composite.  |
| 16 | Muhammad Awais18-MS-PT-AMD-08 | Dr. Muhammad Ali Nasir | To Analyze the Effect of Damage on Fatigue Properties of Composite Panels. |

**Item No. 3.** **Change of PhD Supervisor**

Board recommended the Change of Supervisor against following PhD Scholars.

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| **Name and Regd. Of the Scholar** | **Previous Supervisor** | **New Supervisor**  |
| Rehan Saghir | Dr. Muhammad Ali Nasir | Dr. Abid Hussain |
| Fazle Hadi13-UET-PhD-ME-77 | Dr. Hafiz Muhammad Ali\* | Prof. Dr. Riffat Asim Pasha |
| Zulfiqar Khattak13-UET-PhD-ME-78 | Dr. Hafiz Muhammad Ali | Dr. Muhammad Ali Nasir |

\*Dr. Hafiz Muhammad is on EOL.

**Item No. 5.** **Correction of Postgraduate Results**

Board deliberated on application submitted by the students and recommended the following correction in their results.

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| **Name and Reg. No.** | **Subject and Semester** | **Recommended Correction** |
| Muhammad Essa18-MS-PT-PE(H)-02 | 1. Advanced Reservoir Analysis and Simulation (Fall-2019)
2. Project Management.

(Fall-2019) | Removal of the Grade F for the subject mentioned at a. Notification of Result for the subject mentioned at b. |
| Amna Aadil19-MS-ME-TSE-10 | Advanced Thermodynamics(Spring 2020) | The scholars studied the course but his result nor his registration was forwarded to COE. Board recommended the result may be forwarded to COE for notification. |
| Sarmad Rehan19-MS-ME-TSE-06 | Advanced Thermodynamics(Spring 2020) | The scholars studied the course but his result nor his registration was forwarded to COE. Board recommended the result may be forwarded to COE for notification. |
| Muhammad Tahir19-MS-ME-PE(T)-02 | Advanced Thermodynamics(Spring 2020) | The scholars studied the course but his result nor his registration was forwarded to COE. Board recommended the result may be forwarded to COE for notification. |

**Item No. 6. Panel of External Examiners for PhD Final Viva**

Board recommended the panel of External Examiners for PhD Final Viva of PhD Scholar **Rubeena Kausar** Reg. No. **13-UET/PhD-ME-76.**

1. **Prof. Touseef Aized**, Professor, Faculty of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan.
2. **Prof. Imran Shahid**, Chairman, Mechanical Engineering Department, Kalashah Kaku Campus, UET Lahore.
3. **Dr. Adeel Waqas**, Principal & Dean US Pakistan Center for Advanced studies in Energy (USPCAS E) National University of Science and Technology (NUST) H-12 campus- Islamabad-Pakistan
4. **Dr. Saeed Badshah**, Associate Prof./Ex-Chairman Mechanical Engineering Department, International Islamic University, Islamabad.

The meeting ended with the vote of thanks to the chair.

***DIRECTOR PGS***

***CHAIRMAN***