**DEPARTMENT OF MECHANICAL ENGINEERING**

**UNIVERSITY OF ENGINEERING AND TECHNOLOGY** **TAXILA**

**Minutes of Meeting of Board of Post-Graduate Studies, held on 20.01.2020 at 10:00am in the Conference Room, MED**

Following were present:

* 1. Prof. Dr. Riffat Asim Pasha (In Chair)
	2. Prof. Dr. M. Shahid Khalil
	3. Prof. Dr. Muhammad Zubair Khan
	4. Dr. Ajaz Bashir Janjua
	5. Dr. Muhammad Ali Nasir
	6. Dr. Muzaffar Ali (Invited Member)
	7. Dr. Muhammad Shehryar (Invited Member)
	8. Dr. Abid Hussain (Invited Member)
	9. Dr. Nazeer Ahmed Anjum (Invited Member)
	10. Dr. Aneela Wakeel (Invited Member)
	11. Dr. Waqar Ahmed Qureshi (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 him to appear for his final viva. Panel of external examiners is also recommended.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Muhammad Aamer Hayat 17-MS-PT-PE(T)-17** |
|  **Supervisor** | Engr. Zahid Suleman Butt |
| **Thesis Title** | Experimental Investigation of Hybrid Phase Change Material with Metallic Foam and Heat Pipe. |
| **Panel for External Viva** | 1. Prof. Dr. Kamran Afaq, HITEC University.
2. Prof. Dr. Muhammad Abid, Comsats Wah Cantt.
3. Dr. Amir Sultan, Director Sub Campus, UET Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Saad Iqbal 16-MS-PT-TSE-07** |
|  **Supervisor** | Prof. Dr. Riffat Asim Pasha  |
| **Thesis Title** | Thermal Management of Electronics Devices using Nano-PCM Integrated with Metal Foam Based Heat Sinks |
| **Panel for External Viva** | 1. Prof. Dr. Nadeem Ahmed Sheikh, IIU Islamabad.
2. Prof. Dr. Rafi Javed Qureshi, Swedish College Wah Cantt.
3. Dr. Qamar Iqbal, HMC-3 Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Saif Ullah Khalid 17-MS-PT-TSE-15** |
|  **Supervisor** | Dr. Muhammad Ali Nasir  |
| **Thesis Title** | Effect of Introducing Anngular Fins on Thermal Performance of Sintered Copper Wicked Heat Pipes. |
| **Panel for External Viva** | 1. Dr. Khalid Hussain, DESTO Islamabad.
2. Dr. Hafiz Sanaullah Butt, General Manager, AWC Hassanabdal.
3. Dr. Atta ur Rehman, HITEC University Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Muhammad Bilal Nutkani 17-MS-PT-TSE-21** |
|  **Supervisor** | Prof. Dr. Riffat Asim Pasha |
| **Thesis Title** | Design and Development of Split Hopkinson Pressure Bar (SHPB) Compression Test Setup for Characterization of Materials at High Strain Rates. |
| **Panel for External Viva** | 1. Prof. Dr. Muhammad Zubair, IST Islamabad.
2. Prof. Dr. Athar Masood, IIU Islamabad.
3. Dr. Atta ur Rehman, HITEC University Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Muhammad Aaqib 17-MS-PT-AMD-23** |
|  **Supervisor** | Dr. Azhar Hussain |
| **Thesis Title** | Investigation the Stability of Composite PCM |
| **Panel for External Viva** | 1. Prof. Dr. Ramzan A. Karim, GIKI Topi Swabi.
2. Dr. Muhammad Yasir, IST Islamabad.
3. Dr. Ajaz Bashir Janjua, HMC Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Muhammad Zia 15-MS-PT-PE(T)-02** |
|  **Supervisor** | Dr. Ajaz Bashir Janjua |
| **Thesis Title** | Optimizing the Effect of Stiffening Ring on a Vessel under External Pressure by Numerical Analysis. |
| **Panel for External Viva** | 1. Dr. Zaheer-ul-Hassan, POF Wah Cantt.
2. Dr. Azhar Munir, Director, AWC Hassanabdal.
3. Dr. Atta-ur-Rehman, HITEC Taxila.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Altaf Hussain 15-MS-PT-AMD-17** |
|  **Supervisor** | Dr. Nazeer Ahmed Anjum |
| **Thesis Title** | Surface Finish Characterization & Exploration of Cutting Parameters in Turning. |
| **Panel for External Viva** | 1. Dr. Waqas Anwar, General Manager, AWC Hassanabdal.
2. Dr. Mushtaq Ahmed Khan, Associate Prof. NUST Islamabad.
3. Prof. Dr. Athar Masood, HoD, IIU Islamabad.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Saima Bibi 15-MS-FT-AMD-09** |
|  **Supervisor** | Dr. Waqar Ahmed Qureshi |
| **Thesis Title** | Finite Element Analysis of Wear by Energetic Method for Elliptic Contact. |
| **Panel for External Viva** | 1. Dr. Mubashir, EME College, NUST Rawalpindi.
2. Dr. Rehan, PMO Taxila.
3. Prof. Dr. Nadeem Ahmed Sheikh, IIU Islamabad.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Sher Asif Khan 17-MS-PT-EnE-12** |
|  **Supervisor** | Dr. Tanzeel ur Rashid  |
| **Thesis Title** | Pakistan Transport Outlook: Post Analysis of Electric Cars. |
| **Panel for External Viva** | 1. Dr. Noor, Pakistan Atomic Energy Commission, Islamabad.
2. Dr. Ajaz Bashir Janjua, HMC Taxila.
3. Dr. Kifait ullah, NUST Islamabad.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Jahanzeb 15-MS-PT-EnE-11** |
|  **Supervisor** | Dr. Tanzeel ur Rashid  |
| **Thesis Title** | Energy Analytical Based on TIMES-Pak for Integrated Energy Planning. |
| **Panel for External Viva** | 1. Dr. Noor, Pakistan Atomic Energy Commission, Islamabad.
2. Dr. Ajaz Bashir Janjua, HMC Taxila.
3. Dr. Kifait ullah, NUST Islamabad.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Talal Bin Ahmed 17-MS-PT-EnE-20** |
|  **Supervisor** | Dr. Tanzeel ur Rashid  |
| **Thesis Title** | Emerging Technologies in Urban Bus Transit System of Pakistan. |
| **Panel for External Viva** | 1. Dr. Noor, Pakistan Atomic Energy Commission, Islamabad.
2. Dr. Ajaz Bashir Janjua, HMC Taxila.
3. Dr. Kifait ullah, NUST Islamabad.
 |

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.

|  |  |
| --- | --- |
| **Name of Scholar & Reg.** | **Muhammad Nasir 15-MS-PT-AMD-09** |
|  **Supervisor** | Dr. Muhammad Ali Nasir  |
| **Thesis Title** | Mechanical Characterization of Basalt Fiber Reinforced Polymer Composite. |
| **Panel for External Viva** | 1. Dr. Sanaullah Butt, General Manager, AWC Hassanabdal.
2. Engr. Imtiaz Rastgar, CEO Rastgar Group Islamabad.
3. Dr. Hasan Junaid, PMO Taxila.
 |

**Item No. 2. Topic Approval/ Synopsis for MSc Thesis**

Board recommended following Research Topics and Supervisors against following MSc Scholars.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Student Name** | **Supervisor** | **Research Topics** |
| 1 | Usman Aziz16-MS-PT-AMD-16 | Dr. Waqar Ahmed Qureshi | Design, Development and Testing of Adaptive Vibration Damping System Using Carbonyl Iron Based Magneto-Rheological Fluid. |
| 2 | Ammar Mehboob18-MS-PT-TSE-08 | Dr. Abid Hussain | Numerical Modeling of Thermal Management for Lithium Ion Battery. |
| 3 | Abdullah Muneeb Akram17-MS-PT-PE(H)-01 | Dr. Ajaz Bashir Janjua | Experimental approach to investigate the Optimum Operating Condition of Conical Basin Gravitation Water Vortex Power Plant. Approach. |
| 4 | Atiya Sadiq16-MS-PT-TSE-05 | Dr. Muzaffar Ali | Model Based Transient Analysis of a Solar Assisted Absorption System for Multiclimate Zones with Dynamic Building Load. |
| 5 | Murad Alam17-MS-PT-AMD-14 | Dr. Waqar Ahmed Qureshi | Aeroelastic Wind Tunnel Model Development of Low Speed Wing. |
| 6 | Saad Saeed Minhas18-MS-PT-TSE-01 | Dr. Abid Hussain | Thermal Management of Electric Heater using Forced Air with Different Geometry Configurations. |
| 7 | Muhammad Azhar Hussain18-MS-PT-TSE-10 | Dr. Aneela Wakeel | Effect of Hybrid Nanofluids on Thermal Performance of Sintered Copper Wicked Heat Pipes. |
| 8 | Muhammad Farhan18-MS-PT-PE(T)-12 | Dr. Syed Nasir Shah | Experimental Investigation of Compound Parabolic Collector Using Hybrid Nanofluids. |
| 9 | Muhammad Waqar17-MS-PT-P&G-04 | Dr. Muddassir Ali | Mathematical Modeling of Enhanced Oil Recovery Using Polymer/Nanoparicles Flooding In Porous Media. |
| 10 | Muhammad Yousaf18-MS-PT-TSE-07 | Dr. Muddassir Ali  | Design and CFD Analysis of HVAC System. |

**Item No. 3. Course and Teacher allocation for MSc/PhD Semester Spring-2020**

Board recommended the allocation of teachers and courses to be taught in Mechanical Engineering Department in Semester Spring 2020. (Detail is attached as Annexure-1)

**Item No. 5.** **Change of PhD Supervisor and Research Monitoring Committee**

Board recommended changing the Research Monitoring Committee against following PhD Scholar. Scholars.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.**  | **Scholar Name** | **Previous RMC**  | **New RMC**  |
| 1 | Asif Khan15-UET/PhD-ME-98 | 1. **Dr. H. M. Ali (Supervisor)**

Dr. Shahab Khushnood(Internal Member)Dr. Najam us SaqibDr. Azhar Munir | **Dr. Muddassir Ali (Supervisor)**Dr. M. Shehryar (Internal Member)Dr. Najam us SaqibDr. Azhar Munir |

 Note: Dr. Hafiz Muhammad Ali is on EOL from 01.09.2019 and Prof. Dr. Shahab Khushnood has been retired since May 2019.

**Item No. 6.** **Change of MSc Supervisor**

Board recommended changing the research supervisor for following MSc Scholars due to non availability of Dr. Hafiz Muhammad Ali.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Name and Registration** | **Previous Supervisor** | **New Supervisor** |
| 1 | Muhammad Uzair Shah 17-MS-PT-TSE-16 | Dr. Hafiz Muhammad Ali | Prof. Dr. Riffat Asim Pasha |

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

***DIRECTOR, PGS***

***CHAIRMAN***