**DEPARTMENT OF MECHANICAL ENGINEERING**

**UNIVERSITY OF ENGINEERING AND TECHNOLOGYTAXILA**

**Minutes of Meeting of Board of Post-Graduate Studies, held on 25.02.2021at 10:00am**

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

Following were present:

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

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.

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| **Name of Scholar & Reg.** | **Muhammad Farhan 18-MS-PT-PE(T)-12** |
| **Supervisor** | Dr. Syed Nasir Shah |
| **Thesis Title** | Experimental Investigation of Compound Parabolic Collector Using Hybrid Nanofluids. |
| **Panel for External Viva** | 1. **Prof. Dr. Muhammad Younas,** UET Peshawar. 2. **Dr. Israr ud Din,** Assistant Professor, RCMS, NUST Islamabad. 3. **Dr. Mansoor ul Hassan,** Lecturer, UET Peshawar**.** |

1. Board did not recommend the final progress report of below mentioned scholar and suggested him to re-appear after incorporating required changes.

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| **Name of Scholar & Reg.** | **Muhammad Irfan 17-MS-PT-P&G-02** |
| **Supervisor** | Dr. Waqar Ahmed Qureshi |
| **Thesis Title** | Finite Element Analysis of Wear for General Elliptical Contacts |
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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.** | **Asif Durez 17-MS-PT-EnE-17** |
| **Supervisor** | Prof. Dr. Muzaffar Ali |
| **Thesis Title** | Modeling and Optimization for Passive Cooling of PV Panels in Multi Climate Zones. |
| **Panel for External Viva** | 1. **Dr. Waheed Badar,** 2. **Prof. Dr. Nadeem A. Sheikh,** International Islamic University, Islamabad. 3. **Dr. Ajaz Bashir Janjua,** Deputy General Manager, 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.

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| **Name of Scholar & Reg.** | **Muhammad Usman Tahir 17-MS-PT-AMD-19** |
| **Supervisor** | Prof. Dr. Riffat Asim Pasha |
| **Thesis Title** | Mechanical Characterization of Fiber Metal Laminates Subjected to Thermal Cycling. |
| **Panel for External Viva** | 1. **Prof. Dr. M. Zubair Khan,** IST Islamabad. 2. **Prof. Dr. Muhammad Shahid,** SCME, NUST Islamabad. 3. **Prof. Dr. Athar Masood,** Chairman DME, 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.

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| **Name of Scholar & Reg.** | **Saad Saeed Minhas 18-MS-PT-TSE-01** |
| **Supervisor** | Dr. Abid Hussain |
| **Thesis Title** | Thermal Management of Electric Heater using Forced Air with Different Geometry Configurations. |
| **Panel for External Viva** | 1. **Dr. Emad u din,** Assistant Professor**,** SMME, NUST Islamabad. 2. **Dr. Muhammad Irfan,** Assistant Professor, CUST Islamabad. 3. **Dr. Muhammad Umer,** Assistant Professor, IST 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.

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| **Name of Scholar & Reg.** | **Jahangeer Khan 17-MS-PT-P&G-07** |
| **Supervisor** | Dr. Rizwan Ahmed Malik |
| **Thesis Title** | Process Formulation and Characterization of BCZT modified BiFeO3-BaTiO3 Piezoelectric Ceramics |
| **Panel for External Viva** | 1. **Dr. Mohsin Saleem,** Assistant Professor**,** SCME, NUST Islamabad. 2. **Dr. Atta ur Rehman Shah,** Assistant Professor, HITEC University Taxila. 3. **Dr. Ali Hussain,** Assistant Professor, IST 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.

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| **Name of Scholar & Reg.** | **Aizaz Imtiaz 17-MS-PT-PE(T)-25** |
| **Supervisor** | Dr. Azhar Hussain |
| **Thesis Title** | Design of Multistage Biowaste Gasification Reactor |
| **Panel for External Viva** | 1. **Dr. Khurram Imran Sarroya,** Assistant Professor**,** GIKI Topi, Swabi. 2. **Dr. Sohail Malik,** Assistant Professor**,** GIKI Topi, Swabi. 3. **Dr. Azhar Munir,** Director AWC Hassanabdal. |

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.** | **Muhammad Bilal Noumani 16-MS-PT-AMD-13** |
| **Supervisor** | Dr. Azhar Hussain |
| **Thesis Title** | Design & Development of Heat Exchanger to Study the Effect of Preheated Air on Engine Performance and Exhaust Gas Emission of a 4-Stroke Diesel Engine |
| **Panel for External Viva** | 1. **Col. Omair Nasir,** HIT Taxila. 2. **Dr. Sohail Malik,** Assistant Professor**,** GIKI Topi, Swabi. 3. **Dr. Muhammad Asif,** Assistant Professor**,** GIKI Topi, Swabi. |

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.** | **Muhammad Irfan Haider Abidi 16-MS-FT-AMD-19** |
| **Supervisor** | Dr. Rizwan Ahmed Malik |
| **Thesis Title** | Mechanical Characterization of Toughened Armored Composites |
| **Panel for External Viva** | 1. **Dr. Mohsin Saleem,** Assistant Professor**,** SCME, NUST Islamabad. 2. **Dr. Atta ur Rehman Shah,** Assistant Professor, HITEC University Taxila. 3. **Dr. Asif Hussain,** Assistant Professor, UET Lahore. |

1. Board recommended the final progress report of below mentioned scholar and allowed him to appear for her final viva. However, the Prof. Dr. Muzaffar Ali is of the opinion that the results shown by the scholar may be verified again and suggested that he may appear for his final viva after validation of results. Panel of external examiners is also recommended.

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| **Name of Scholar & Reg.** | **Sajjad Ahmad 17-MS-PT-P&G-14** |
| **Supervisor** | Dr. Azhar Hussain |
| **Thesis Title** | Combustion Efficiency Analysis of Internal Combustion Engine Using Fuel Pre-Injection with Intake Air.Mechanical Characterization of Toughened Armored Composites |
| **Panel for External Viva** | 1. **Col. Omair Nasir,** HIT Taxila. 2. **Dr. Sohail Malik,** Assistant Professor**,** GIKI Topi, Swabi. 3. **Dr. Muhammad Asif,** Assistant Professor**,** GIKI Topi, Swabi. |

**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 | Syeda Qurat-ul-Ain  17-MS-PT-EnE-09 | Dr. Muddassir Ali | Development of Polymeric Composite Membranes for Water Filtration Applications. |
| 2 | Jawad Fareed  18-MS-PT-P&G-02 | Dr. Muddassir Ali | Experimental Investigation of Cellulose Blended Membranes for Seawater Pervaporation Desalination. |
| 3 | Muhammad Maarij  19-MS-ME-AMD-10 | Dr. Shehryar Manzoor | Design and Development of Four-bar Dynamic Testing Machine. |
| 4 | Muhammad Arsalan  18-MS-PT-TSE-03 | Prof. Dr. Muzaffar Ali | Techno-Economic and Environmental Analysis of Hybrid Solar Space Heating System in a Sub-Tropical Climate. |
| 5 | Faisal Hassan  18-MS-FT-TSE-03 | Dr. Abid Hussain | Thermal Management of Electronic Equipment Using Nano Enriched Phase Change Materials Saturated with Metal Foam. |
| 6 | Syed Awais Ali  19-MS-ME-TSE-18 | Dr. Syed Nasir Shah | Development of bi-metallic MOF based mixed matrix membrane for CO2 capture optimization. |
| 7 | Hilal Ahmad  19-MS-ME-TSE-13 | Dr. Syed Nasir Shah | Optimization of heavy metal removal process from wastewater using ionic liquids. |
| 8 | Waqad ul Mulk  19-MS-ME-TSE-19 | Dr. Syed Nasir Shah | Synthesis of supported ionic liquid based polymeric membrane for CO2 capture. |
| 9 | Aqib Mehmood  19-MS-ME-AMD-01 | Dr. Waqar Ahmed Qureshi | Numerical Investigation of Fretting Wear for Elliptical Contact. |

**Item No. 3 Course and Teacher Allocation for Semester Spring 2021**

Board recommended the course to be taught allocated relevant course teacher against each course for semester Spring 2021 (Annex attached).

**Item No. 4** **MSc Supervisor Allocation**

Board recommended provisional allocation of supervisors to all registered MSc students (Annex attached).

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

***DIRECTOR PGS***

***CHAIRMAN***