**DEPARTMENT OF MECHANICAL ENGINEERING**

**UNIVERSITY OF ENGINEERING AND TECHNOLOGYTAXILA**

**Minutes of Meeting of Board of Post-Graduate Studies, held on 17.03.2022 at 09:30am**

**In the Conference Room of Mechanical Engineering Department**

Following were present:

* 1. Prof. Dr. Riffat Asim Pasha (In Chair)
	2. Prof. Dr. Amir Sultan (Internal Member)
	3. Prof. Dr. Muzaffar Ali (Internal Member)
	4. Dr. Ajaz Bashir Janjua (External Member)
	5. Prof. Dr. Muhammad Ali Nasir (Internal Member/ Director PGS)
	6. Dr. Mubashir Gulzar (Associate Professor)
	7. Concerned Supervisors

The meeting started with the name of Allah Al-mighty.

**Item No. 1. Postgraduate 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.** | **Haris Khalid, 18-MS-PT-AMD-04** |
|  **Supervisor** | Prof. Dr. Riffat Asim Pasha |
| **Thesis Title** | Investigation on Impact Resistance Hybrid Structure Based on Super Elastic Shape Memory Alloys and 3D Printed Lattice Structures. |
| **Panel for External Viva** | 1. **Prof. Dr. Muhammad Abid,** Director Comsats Wah Cantt**.**
2. **Dr. Athar Masood,** Chairman DME, IIU Islamabad.
3. **Dr. Munawar,** HMC 3 Taxila.
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| **Name of Scholar & Reg.** | **Muhammad Waseem, 18-MS-FT-AMD-06** |
|  **Supervisor** | Prof. Dr. Riffat Asim Pasha |
| **Thesis Title** | Material Characterization of 3D Printed Polymeric Structures at High Strain Rate Testing using Split Hopkinson Pressure Bar |
| **Panel for External Viva** | 1. **Dr. Qamar Iqbal,** Deputy Chief Engineer, HMC 3 Taxila.
2. **Dr. Saeed Badshah,** IIU Islamabad.
3. **Dr. Hafiz Sanaullah Butt,** Project Director, AWC Hassanabdal.
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| **Name of Scholar & Reg.** | **Hamza Sajjad, 19-MS-ME-TSE-28** |
|  **Supervisor** | Dr. Syed Nasir Shah |
| **Thesis Title** | Biodiesel Production from Non-Edible Waste Cooking Oil using SrO-MnO/Ceramic. |
| **Panel for External Viva** | 1. **Prof. Dr. Muhammad Zaman**, HoD, Dept. of Chemical Engineering, PIEAS, Islamabad.
2. **Dr. Saleem Iqbal**, Assistant Professor, Department of Chemical Engineering, Wah Engineering College.
3. **Dr. Adnan Hamid**, Associate Professor, Department of Chemical Engineering, PIEAS, Islamabad.
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| **Name of Scholar & Reg.** | **Hamza Zahoor, 19-MS-ME-TSE-17** |
|  **Supervisor** | Dr. Syed Nasir Shah |
| **Thesis Title** | Production of Bio-Diesel from Waste Cooking Oil with Application of Ti/La Catalyst based Composites. |
| **Panel for External Viva** | 1. **Dr. Amjad Farooq**, Associate Professor, Department of Nuclear Engineering, PIEAS, Islamabad.
2. **Dr. Sajid Ullah Butt**, Mech. Engg. Dept. EME College, NUST Rawalpindi.
3. **Prof. Dr. Riffat Naseem Malik**, Environmental Sciences Department, Quaid-i-Azam University, Islamabad.
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| **Name of Scholar & Reg.** | **Waqad Ul Mulk, 19-MS-ME-TSE-19** |
|  **Supervisor** | Dr. Syed Nasir Shah  |
| **Thesis Title** | Synthesis of Supported Ionic Liquid Based Polymeric Membrane for CO2 Capture. |
| **Panel for External Viva** | 1. **Dr. Tauseef Anwar,** Assistant Professor, Department of Physics, University of Lahore. Lahore**.**
2. **Dr. Asif Mehmood,** Associate Prof. Department of Chemistry, PIEAS Islamabad.
3. **Dr. Mansoor ul Hassan**, Lecturer, Department of Chemical Engineering, UET Peshawar.
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| **Name of Scholar & Reg.** | **Jawad Fareed, 18-MS-PT-P&G-02**  |
|  **Supervisor** | Dr. Muddasir Ali |
| **Thesis Title** | Experimental Investigation of Cellulose Blended Membranes for Seawater Pervaporation Desalination. |
| **Panel for External Viva** | 1. **Dr. Mohsin Saleem,** Asst. Prof. SCME, NUST Islamabad.
2. **Dr. Muhammad Zafar,** Asst. Prof. Univ. of Punjab, Lahore.
3. **Dr. Muhammad Ammar,** Asst. Prof. GC University, Faisalabad.
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| **Name of Scholar & Reg.** | **Syed Awais Ali, 19-MS-ME-TSE-18** |
|  **Supervisor** | Dr. Syed Nasir Shah  |
| **Thesis Title** | Development of Bi-metallic Mof based MMMs for CO2 Capture Optimization.  |
| **Panel for External Viva** | 1. **Dr. Mian Ilyas Ahmad**, Associate Professor, Research Centre for Modelling & Simulation, NUST Islamabad.
2. **Dr. Barkat Ullah**, Department of Mechanical Engineering,

COMSATS University Islamabad, Wah Campus.1. **Prof. Waseem Siddique**, Department of Mechanical Engineering, PIEAS, 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.** | **Hamza Fayyaz, 19-MS-ME-TSE-02** |
|  **Supervisor** | Dr. Abid Hussain  |
| **Thesis Title** | Experimental Analysis of Nano-Enhanced Phase Change Material with Different Configuration of Heat Sinks.  |
| **Panel for External Viva** | 1. **Dr. Emad ud Din,** SMME NUST Islamabad**.**
2. **Dr. Muhammad Anwar,** IST Islamabad**.**
3. **Dr. Muhammad Umer,** IST 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.** | **Muhammad Naeem, 19-MS-ME-AMD-44** |
|  **Supervisor** | Dr. Ajaz Bashir Janjua |
| **Thesis Title** | Pumped Storage Based Short Term Hydro-Thermal Scheduling using Metaheuristic Algorithm.  |
| **Panel for External Viva** | 1. **Dr. Fahad Sarfraz Butt,** HITEC University Taxila**.**
2. **Dr. Muhammad Abid,** Assistant Professor, COMSATS Wah Campus.
3. **Dr. Hafiz Sanaullah,** Project Director, AWC Hassanabdal**.**
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**Item No. 2. Approval of The Research Topic for MSc Thesis**

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 | Tooba Ashfaq20-MS-ME-TSE-01 | Dr. Muhammad Shehryar | Dynamic Response and Thermal Analysis of Flow around an Equilateral Triangular Prism. |
| 2 | M. Mubashir Iqbal20-MS-ME-TSE-05 | Dr. Abid Hussain | Passive Temperature Excursion of Electronic Devices using Ionic Wind. |
| 3 | Muhammad Tayyab Mohsin20-MS-ME-TSE-08 | Dr. Abid Hussain | Energy, Exergy and Environmental Analysis of PCM Based Solar Photovoltaic Panel |
| 4 | Muhammad Junaid19-MS-ME-AMD-23 | Dr. Rizwan Ahmed Malik  | Performance and Integrity Investigation of Biopolymers Based Membranes for Water Desalination. |
| 5 | Khurram Shahzad18-MS-PT-AMD-12 | Prof. Dr. Muhammad Ali Nasir | Development and Ballistic Testing of Safety Helmets. |
| 6 | Muhammad Umair20-MS-ME-AMD-10 | Dr. Azhar Hussain | Investigation of Impact Resistance for Nature Inspired Assembly.  |
| 7 | Hira Nawaz20-MS-ME-AMD-01 | Dr. Mubashir Gulzar | Tribological Analysis of Ionic Liquid as an Additive to Bio based Oil. |
| 8 | Abu Summama Sadavi Bilal19-MS-ME-PE(T)-08 | Dr. Azhar Hussain | Optimization of Rotary Furnace for Sustainability.  |
| 9 | Amna Adil19-MS-ME-TSE-10 | Dr. Muhammad Shehryar | Thermal Investigation of Normal Channel Facile Heat Sink using Hybrid Nanofluids. |
| 10 | M. Umar Khan18-MS-PT-PE(T)-06 | Dr. Abid Hussain | Numerical Thermal Analysis of Nano Fluid based Heat Pipe for Electronic Devices. |
| 11 | M. Shahrukh Atta20-MS-ME-TSE-03 | Dr. Syed Nasir Shah | Performance Enhancement of Heavy Crude Oil to Reduce Corrosion Problems in Oil Refinery. |
| 12 | Zeeshan Ali 18-MS-PT-AMD-01 | Dr. Waqar Ahmed Qureshi | A Finite Element Formulation Based on Extended Higher Order Sandwich Plate Theory. |
| 13 | Muhammad Ali 20-MS-ME-TSE-07 | Dr. Syed Nasir Shah | Desulfurization of Diesel Oil and Engine Exhaust Analysis for Euro V Emission Standard. |

**Item No. 3:** **Constitution of Research Monitoring Committee for PhD**

Board recommended the constitution of Research Monitoring Committee for PhD Studies against following PhD Scholars of Mechanical Engineering Department

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| **Name and Registration No.** | **Supervisor** | **Proposed RMC Members** |
| **Rehan Saghir**19-UET/PhD-ME-23 | **Dr. Abid Hussain***Supervisor* | 1. **Dr. Muhammad Irfan** (Mech/20229)

Assistant Professor, Capital University of Science and Technology, Islamabad.1. **Dr. Emmad ud Din, (**Mech/20235)

HoD SMME, NUST Islamabad. 1. **Dr. Muhammad Anwar,** (Mech/20343)

Assistant Professor, IST Islamabad. 1. **Dr. Muhammad Umar,** (Mech/23872)

Assistant Professor, IST Islamabad. 1. **Dr. Yamin Younas,** (Mech/20249)

Assistant Professor, Mirpur University of Science and Technology, AJK1. **Dr. Tanzeel ur Rashid,**

Assistant Prof. Mechanical Engineering Department, UET Taxila.1. **Chairman (MED)**
2. **Dean** (FM & AE)
3. **Director** (ASR & TD)
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| **Saif Ullah Khalid**19-UET/PhD-ME-24 | **Prof. Dr. Muhammad Ali Nasir***Supervisor* | 1. **Dr. Hafiz Sana ullah Butt**

Project Management, AWC Hassanabdal.1. **Dr. Taqi Ahmed Cheema**

GIKI Topi, Swabi. 1. **Dr. Atta ur Rehman Shah**

Dept. of Mechanical Engineering, HITEC University Taxila. 1. **Dr. Khurram Shehzad,** GM, AWC Hassanabdal.
2. **Dr. Azhar Hussain,** Assistant Professor, UET Taxila.
3. **Chairman (MED)**
4. **Dean** (FM & AE)
5. **Director** (ASR & TD)
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**Item No. 4 Start of MTech Program in Collaboration with National Skills University**

Reference instructions of the worthy Vice-Chancellor, the Board discussed and proposed to start Masters of Technology Program (MTech) under Faculty of Mechanical and Aeronautical Engineering, UET Taxila, in collaboration with National Skills University (NSU) as an Evening Program. However, the modalities related to its Approval/NOC, Curriculum, Infrastructure sharing, Teaching Faculty, Labs etc. need to be finalized after thorough discussion with concerned at NSU. In this regard a detailed working paper is required to be prepared in consultation with NSU**.**

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

***DIRECTOR PGS***

***CHAIRMAN***