**DEPARTMENT OF MECHANICAL ENGINEERING**

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

**Minutes of Meeting of Board of Post-Graduate Studies, held on 28.07.2017 at 10:00 am in the Conference Room, MED**

Following were present:

* 1. Prof. Dr. Riffat Asim Pasha (In Chair)
  2. Prof.Dr. Khawaja Sajid Bashir
  3. Prof. Dr. M. Zubair Khan
  4. Dr. Asif Hussain Malik
  5. Dr. Azhar Munir

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. Thesis Title:

“**Effect of contaminated orifice plate on the accuracy of orifice meter for natural gas measurement**”.

Scholar Name and Regd. No.: Sajjad Khan 14-MS-PT-TF-06

Supervisor: Dr. Hafiz Muhammad Ali

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Optimization of impact resistance and blunt trauma of Kevlar fiber reinforced polymer (KFRP) composite against high velocity impact”.**

Scholar Name and Regd. No.: Huda Hanif Khan 13-MS-PT-AMD-02

Supervisor: Prof. Dr. Riffat Asim Pasha

Board recommended the above final progress report and allowed her to appear for her final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Experimental and analytical analysis of Aluminum housing against the random vibration spectrum”.**

Scholar Name and Regd. No.: Muhammad Irfan 13-MS-PT-AMD-07

Supervisor: Prof. Dr. Riffat Asim Pasha

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Reduction in tribo corrosion of Titanium alloy prosthetic HIP joint using active corrosion protection technique**”

Scholar Name and Regd. No.: Awais Hassan Jalali 13-MS-PT-AMD-01

Supervisor: Prof. Dr. Riffat Asim Pasha

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Experimental investigation of thermal fatigue life of engine cylinder liner**”.

Scholar Name and Regd. No.: Babar Hayat 14-MS-PT-AMD-11

Supervisor: Dr. Sayyid Masoodur Rehman Shah

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Reducing the vibration of parallel triangular tube bundles in heat exchanger with a PID control system”.**

Scholar Name and Regd. No.: Awais Qasir 13-MS-PT-TF-14

Supervisor: Prof. Dr. Shahab Khushnood

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Wear Analysis of tubes at support in heat exchanger tube bundle”.**

Scholar Name and Regd. No.: Muhammad Usman 15-MS-FT-TSE-09

Supervisor: Prof. Dr. Shahab Khushnood

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

1. Thesis Title:

“**Experimental investigation of conjugate heat transfer within a bottom heated vertical rotating concentric cylindrical enclosure**”

Scholar Name and Regd. No.: Farhan Ejaz 15-MS-FT-TSE-02

Supervisor: Dr. Muhammad Shehryar

Board recommended the above final progress report and allowed him to appear for his final viva. Panel of external examiners was also recommended by the Board.

**Item No. 2** **MSc Research Topic Approval/Synopsis**

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

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| --- | --- | --- | --- |
| **Sr. No.** | **Student Name** | **Supervisor** | **Research Topics** |
| 1 | Hashim A. Haque  16-MS-FT-AMD-02 | Prof. Dr. Riffat Asim Pasha | Design and analysis of a pre-heater using CFD and its effect on thermal efficiency of industrial boiler. |
| 2 | Muhammad Arslan Qasim  16-MS-FT-TSE-04 | Dr. Hafiz Muhammad Ali | Efficiency improvement of PV panels through PCM based system, fins and their comparison. |
| 3 | Muhammad Tanveer  13-MS-PT-TF-08 | Dr. Tanzeel ur Rashid | Design, installation and seasonal production analysis of Biogas plant |
| 4 | Muhammad Usman  13-MS-PT-AMD-11 | Dr. Nazeer A. Anjum | Development of automatic TIG welding machine (for natural gas pipe lines) |
| 5 | M. Asim Azeem  16-MS-FT-AMD-09 | Dr. Masoodur Rehman Shah | Design and Development of DC-LSND welding rig for cylindrical pipes. |
| 6 | M. Shahid Bashir  16-MS-FT-TSE-10 | Prof. Dr. Shahab Khushnood | Wear Analysis of flexible tube with varying support plate geometry. |
| 7 | M. Arslan Anwar  16-MS-FT-TSE-02 | Dr. M. Shehryar | Numerical investigation of vortex impingement effect on a cylinder in a forced convection flow. |
| 8 | Muhammad Usman  14-MS-TF-PT-12 | Dr. Muzaffar Ali | Development of solar powered desalination system using flat plate solar collector |
| 9 | Bilal Ahmed  16-MS-PT-AMD-09 | Dr. Amir Sultan | Mix mode stress intensity for inclined edge crack in die steels. |

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

Board recommended the Change of Supervisor against following PhD Scholar.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. No.** | **Name and Registration No.** | **Current Supervisor.** | **New Supervisor** |
| **1** | Asif Khan  2015-UET/PhD-ME-98 | Prof. Dr. Shahab Khushnood | Dr. Hafiz Muhammad Ali |

**Item No. 4. Transfer of Credit hours**

Board recommended the transfer of credit hours against following MSc Scholar

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name and Reg.No.** | **Subjects** | **Course Code** | **Grade** | **Studied in** |
| Bilal Ahmed  16-MS-PT-AMD-09 | Engineering analysis and Statistics | ME-5601 | B+ | Fall-2013 |
| Research Methodologies and Design of Experiment | ME-5602 | A | Fall-2013 |
| Analytical Stress Determination | ME-5127 | B | Fall-2013 |

**Item No. 5.** **MSc/PhD Courses to be taught in Semester Autumn 2017.**

Board recommended MSc/PhD Courses to be taught in Semester Autumn 2017 in Mechanical Engineering Department.

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

***DIRECTOR, PGS***

***CHAIRMAN***