

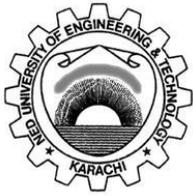


NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

Annual Report 2020-21

Directorate of Industrial Liaison





NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

DIRECTORATE OF INDUSTRIAL LIAISON



ANNUAL REPORT (1ST JULY-2020 TO 30TH JUNE-2021)

The DIL was established at NED University of Engineering & Technology in 1997. The prime objectives of DIL are to create and enhance the required University-Industry Linkages in the form of various activities mostly related to the interaction with industries and finding opportunities for students becoming involved in practical training before graduation. Key areas can be categorized as follows:

1. Arranging **internships** in different industries during vacations.
2. Organizing **study tours** of industries and **visits** for students and faculty members.
3. Securing orders for **projects** and/or suggestions for new Research from industries for final year students and research scholars.
4. Facilitate NED graduates in obtaining suitable **employment** depending on requirements of the job market; also at the same time facilitating prospective employers to contact graduates by arranging tests and interviews.

The Directorate of Industrial Liaison performed following core jobs during the year.

- a. **1514** Internships opportunities were provided in 2020.
950 Internship opportunities are provided to 3rd year students in 2021 (During Ramadan Break 19th April ~ 14 May 2021)
- b. **19** industrial/ study visits were arranged.
- c. **60** Industrial projects were provided for final year students.
- d. **45** Companies were facilitated for employment that comprises of recruitment drives, online tests and webinars. **470** Employers were facilitated by sharing of graduate directories, cv's, placing their job ads on department and web notice boards and conducting online informative seminars.

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Internships

DIL's one of the important functions is to arrange Internships for the third year students in the related industries. The internships are arranged in two sessions during summer and winter vacations. The objectives of the internships are:

1. To help internees to identifying connections between theoretical knowledge and practical approaches to Engineering.
2. To acquire on the Job (OJT) training/experience by physically involving in the working environments of the industry.
3. To aware and prepare internees in recognizing management principles and groom them by developing sense of responsibility as well as good work habits.

1514 Internships opportunities were provided in 2020, Since there was no internships period was provided in the academic calendar due to COVID-19

Internship During Ramadan Break **19th April to 14th May-2021**

1. Total Internships Received: 300
 2. Total Self Based Internships: 603 (388 Males/ 215 Females)
 3. Total Internships arranged by Departments: 47
- Total Internships: 950**

Study visits

DIL arranges study visits on the request of departments for the students on perpetual basis and faculty at various industries and organizations to get the practical exposure of the industry. Also provides assistance to the organizations / industries in respect of Research and Expert engineering services through teaching faculty to address their technical problems.

Total Students/ Faculty study visits were: **19**

Industrial Visits 2020-21

| S.No | Date | No. of Students | Company Name | Department |
|------|------------|-----------------|---|-----------------------|
| 1. | 1-01-2021 | 30 | Alsons Auto Parts (Pvt.) Ltd. | IMechE NED Chapter |
| 2. | 11-03-2021 | 38 | Engro Polymer & Chemicals Limited | Materials Engineering |
| 3. | 11-03-2021 | 38 | Shabbir Tiles & Caramics Ltd. | Materials Engineering |
| 4. | 12-03-2021 | 38 | Atlas Engineering (Pvt.) Ltd. | Materials Engineering |
| 5. | 12-03-2021 | 38 | Hussein Engineering Works (Pvt.) Ltd. | Materials Engineering |
| 6. | 15-03-2021 | 38 | General Tyre | Materials Engineering |
| 7. | 15-03-2021 | 36 | General Tyre | Materials Engineering |
| 8. | 17-03-2021 | 36 | Saima Packaging (Pvt.) Ltd. | Materials Engineering |
| 9. | 18-03-2021 | 38 | Bolan Casting Limited | Materials Engineering |
| 10. | 18-03-2021 | 38 | Aisha Steel Mills Ltd. | Materials Engineering |
| 11. | 19-03-2021 | 30 | Naveena Group | IMechE NED Chapter |
| 12. | 19-03-2021 | 38 | Karachi Shipyard & Engineering Works Ltd. | Materials Engineering |
| 13. | 25-03-2021 | 30 | Alsons Auto Parts (Pvt.) Ltd. | IMechE NED Chapter |
| 14. | 25-03-2021 | 36 | Pakistan Machine Tool Factory | Materials Engineering |

| S.No | Date | No. of Students | Company Name | Department |
|------|------------|-----------------|-----------------------------------|------------------------|
| 15. | 01-01-2020 | 30 | Alsons Auto Pats (Pvt.) Ltd. | IMechE (Society) |
| 16. | 01-01-2020 | 30 | Karachi Tools Dies, Moulds Centre | IMechE (Society) |
| 17. | 03-01-2020 | 21 | Karachi Shipyard Engg. Works Ltd. | Mechanical Engineering |
| 18. | 08-01-2020 | 08 | Lucky Cement (Pvt.) Ltd. | Mechanical Engineering |
| 19. | 10-11-2020 | 05 | K-Electric | Mechanical Engineering |

Annex-III

Final Year Projects

DIL is engaged in collecting the topics of final year engineering projects and arranging technical /practical help from the industries related with the projects. In a number of cases the industries have assigned projects to the university students with competent advisors from their organizations to help the students.

Final Year Projects arranged by DIL department from Industries: **60**

Final Year Projects provided by departments: **500**

Total Final Year Projects: **560**

Following Final Year Projects were received by DIL department

| S. NO | NAME OF INDUSTRY | FYP TITLE | DEPARTMENT |
|-------|---------------------------------------|--|------------|
| 1 | Al-Karam Textile Mills Ltd. | Impact of Standardization of Material Products on Procurement and Business Performance | IM |
| 2 | Artistic Milliners Pvt. Ltd. | Improvement of Warehouse Operations through Inventory Optimization Techniques | IM |
| 3 | Atlas Hitec Pvt. Ltd. | Design and Implementation of an Automated Guidance Vehicle (AGV) | EE |
| 4 | Byco Oil Pakistan Limited | Heat Integration of Byco CDU Unit Products using Pinch Technology | CH |
| 5 | Dalda Foods Pvt. Ltd. | Lean Inventory Optimization | IM |
| 6 | Dawlance Pvt. Ltd. | Implementation of SMED in Mold Shop | IM |
| 7 | Dawood Engineering Pvt. Ltd. | Design, Development & Implementation of Inventory Forecasting System in a Commercial Environment | IM |
| 8 | General Tyre & Rubber Company | Manufacturing of Ground/Recycled Rubber from Scrap Tyres of GTR & Reuse of this Material for Manufacturing of New Tyres for GTR | PP |
| 9 | Peoples Steel Mills Ltd. | Industrial Waste Water Treatment Plant | CH |
| 10 | Jinnah Post Graduate Medical Centre | Comparison between Patient Doses Recened at Co-60 and linac in 3dcrt | AP |
| 11 | Jinnah Post Graduate Medical Centre | Comparison of 80 and 100 SAD Cobalt-60 Dosiometric Data | AP |
| 12 | KIRAN Hospital | Comparison between Case Specific (same technique) Small Field and Large Field Treatment Plans | AP |
| 13 | Midas Clothing Ltd. | To study the complete value chain and devise a system to ensure 100% daily target status (DTS) achievement by using productivity improvement tools | IM |
| 14 | Naveena Exports | Improve Weaving Efficiency with less Man Hours | ME |
| 15 | Pakistan Nuclear Regulatory Authority | Shielding Calculator and Occupational Exposure Assessment at CT-Scan Machine | AP |
| 16 | Peoples Steel Mills Ltd. | Industrial Waste Water Treatment Plant | CH |
| 17 | Sui Southern Gas Company Limited | Process Improvement through Lean Manufacturing Tool Including 5S & Cost of Quality Methodologies at Meter Manufacturing Plant SSGC | IM |
| 18 | Sui Southern Gas Company Limited | To Design HVAC system for Meter Manufacturing Plant SSGC | ME |
| 19 | SUPARCO | Ionosphere | AP |
| 20 | SUPARCO | Astronomy | AP |
| 21 | SUPARCO | Geomagnetism | AP |
| 22 | Vital Associates | Designing of Electrical Infrastructure from Utility like 11KV Bulk Supply with Emergency Backup Systems, Interior and Exterior Lighting, Earthing, Lighting Protection System of Electro Polymer | EE |
| 23 | Youngs Pvt. Ltd. | Assessing the Current Practices, Suggesting Improvement, Possibilities and Documenting for Implementation | IM |
| 24 | Yunus Textile Mills Ltd. | Productivity Enhancement of Cutting Department | IM |

| S. NO | NAME OF INDUSTRY | FYP TITLE | DEPARTMENT |
|--------------|--|--|-------------------|
| 25 | Yunus Textile Mills Ltd. | Implementation of Total Productive Maintenance at Production Floor of YTML | IM |
| 26 | Toyota Indus Motor | DPS System (Design & Development) | AU |
| 27 | Sindh Employee's Social Security Institution (SESSI) | Construction of Nursing School and Hostel at S.S Landhi Hospital Karachi. | CE |
| 28 | Gasco Engineering Pvt Ltd. | To analyze Intermediate Chemical industry for inorganic chemicals considering import substitution (Local Manufacturing) and investment decision feasibility. | CH |
| 29 | Power Cement Limited | Collection and Processing of Municipal Solid Waste | CH |
| 30 | Peoples Steel Mills Ltd. | Dedusting Plant / Dust Collector | CH |
| 31 | AGP Limited | Application of data science in recurring budgets | CT |
| 32 | Sindh Employee's Social Security Institution (SESSI) | Construction of Nursing School and Hostel at S.S Landhi Hospital Karachi. | EE |
| 33 | AGP Limited | Instrumentation and control of Autoclave | EL |
| 34 | Gasco Engineering Pvt Ltd. | To analyze Intermediate Chemical industry for inorganic chemicals considering import substitution (Local Manufacturing) and investment decision feasibility. | IC |
| 35 | Naveena Exports Limited | Perform Value Stream Mapping (VSM) | IM |
| 36 | AGP Limited | Water Conservation in cooling tower | ME |
| 37 | Galaxy Polymer | Increase Efficiency of Injection Molding Machines. | ME |
| 38 | Galaxy Polymer | Increase productivity and eliminate wastages at Assembly line | ME |
| 39 | Naveena Exports Limited | Reuse of wastage | ME |
| 40 | Naveena Exports Limited | Utilization of less energy with improved quality | ME |
| 41 | Naveena Exports Limited | Water reduction in process | ME |
| 42 | Galaxy Polymer | Increase Efficiency of Injection Molding Machines. | IM |
| 43 | Galaxy Polymer | Increase productivity and eliminate wastages at Assembly line | IM |
| 44 | Peoples Steel Mills Ltd. | Dedusting Plant / Dust Collector | ME |
| 45 | Peoples Steel Mills Ltd. | Industrial Waste Water Treatment Plant | ME |
| 46 | Galaxy Polymer | Increase Efficiency of Injection Molding Machines. | PP |
| 47 | Galaxy Polymer | Increase productivity and eliminate wastages at Assembly line | PP |
| 48 | Mapak Edible Oil Refinery Pvt. Ltd. | Profit Maximization in Perishable Goods (oil & ghee) | CF |
| 49 | Artistic Milliners Pvt. Ltd. | To find and optimize the efficiency of Cogeneration Plant | Me |
| 50 | Mustaqim Dyeing Printing | application of lean manufacturing and waste reduction tool in finishing department | IM |

| S. NO | NAME OF INDUSTRY | FYP TITLE | DEPARTMENT |
|--------------|-----------------------------|--|-------------------|
| 51 | Zephyr Pharmatec | Stream lining the production activities of the printing operation and blister packaging line in a pharmaceutical company | IM |
| 52 | Lucky Textile Mills | Process Improvement through Lean Implementation at LTM-4. | IM |
| 53 | Indus Motor company | Process Optimization by work load and time study | IM |
| 54 | Yunus Textile Mills Ltd. | Layout Designing and value stream mapping on the stitching department | IM |
| 55 | Dolman Mall | Safety Audit | EE |
| 56 | Martin Dow | Streamlining sales and operations planning (s&OP) process in line with international standards in pharmaceutical industry using lean principles. | IM |
| 57 | Al-Karam Textile Mills Ltd. | Supply Chain Services in Warehouse | IM |
| 58 | Unilever | Optimizing End-To-End Service, Quality & Cost of Ice Cream Value Chain in Volatile Times | IM |
| 59 | Gul Ahmed Textile Mills | Quality Improvement at any Industry through DMAIC Approach | IM |
| 60 | Dawood Engineering | Design, Development & Implementation of Inventory Forecasting System in a Commercial Environment | IM |

Annex-IV

Test/Interviews (Job Placements)

DIL encourages the prospective Employers for on-campus hiring and facilitate them to conduct Presentations, Tests and Interviews for recruitment. Many multi-national companies, some overseas employers, local business groups and small and medium Enterprises (SME) are availing such facilities on need basis.

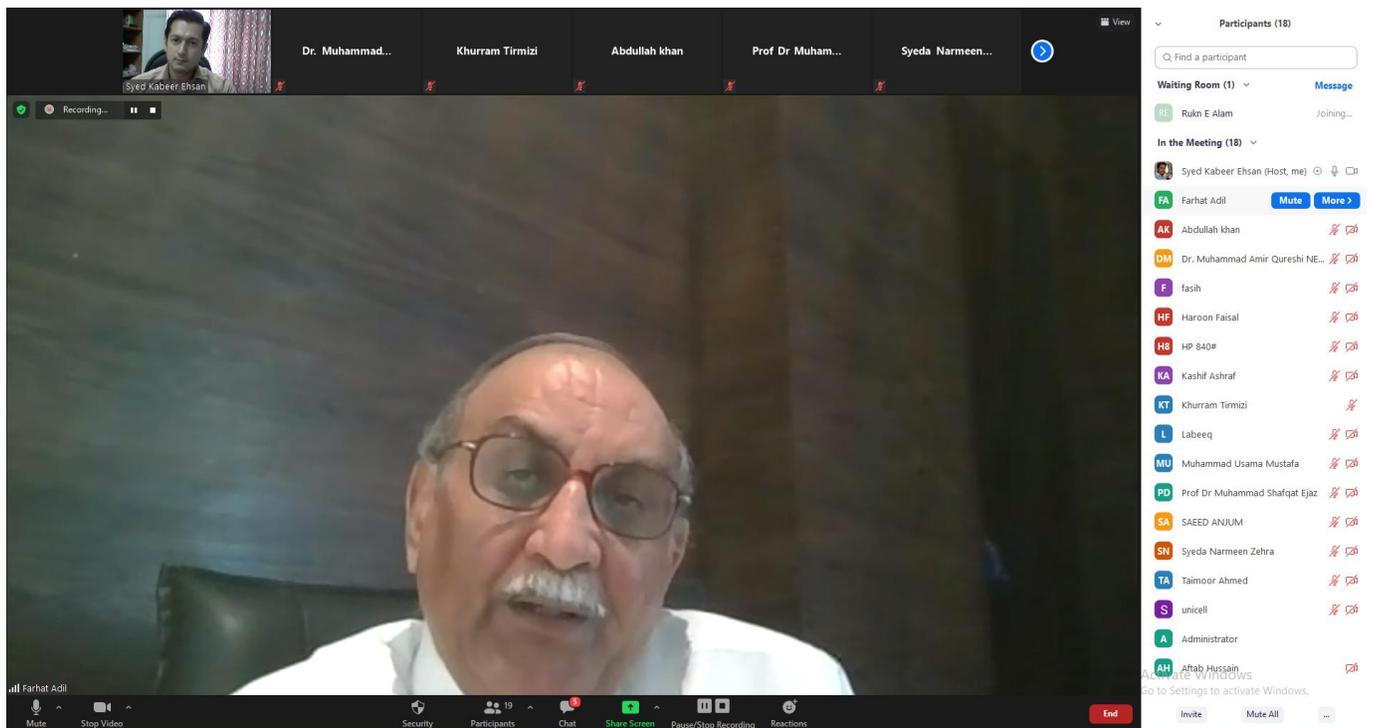
45 Companies were facilitated for employment that comprises of recruitment drives, online tests and webinars.

470 Employers were facilitated by sharing of graduate directories, cv's, placing their job ads on department and web notice boards and conducting online informative seminars.

Career Development Online Session by

1. Farhat Adil
CEO CGD Consulting Pvt Ltd

More than 40 years' experience with a demonstrated history of working in the engineering, architectural & planning industry. Skilled in Procurement, Engineering, Strategic Planning, Project Estimation, and Feasibility Studies. Remained VP/Head of NESPAK Karachi, CEO PRIMACO and Director Business Development at EA Consulting .



1. Determining strengths, interests and values
2. Setting direction and goals
3. Understanding the world of work
4. Identifying options and choices
5. Enhancing your personal brand

Another Career counseling session conducted by

2. Muhammad Mashood A. khan
Director Export
Mehran Commercial Enterprises

A. Recruitment Drive/ Online Test / Webinar

- 1) Engro Polymers & Chemical Ltd
- 2) Tri Pack Firms Limited
- 3) Mentor
- 4) Ismail Industries Limited
- 5) Engro Polymers & Chemical Ltd
- 6) Fauji Fertilizer Company Ltd. (FFC)
- 7) Shell Pakistan
- 8) House of Habib
- 9) Avanza Solutions (Pvt) Ltd.
- 10) Pakistan Cables Ltd.
- 11) Engro Polymer & Chemical Ltd.
- 12) Gul Ahmed Textile Mills
- 13) Power Cement Ltd.
- 14) Lotte Chemical Pakistan
- 15) 10Pearls
- 16) PAAPAM
- 17) Avanza Solutions (Pvt) Ltd.
- 18) GoodCore Software (Pvt) Ltd
- 19) Arbisoft (Pvt.) Ltd
- 20) Gatron (Industries) Limited
- 21) Salesflo (Pvt) Ltd
- 22) ICI Pakistan Ltd
- 23) Engro Enablers
- 24) Jugnu
- 25) House of Habib
- 26) ASTERA
- 27) Nestle Pakistan Limited
- 28) GSK
- 29) Reckitt Benckiser Health Pakistan
- 30) Shan Foods Pvt Ltd
- 31) DreamBig Semiconductor Inc
- 32) ASTERA Software
- 33) Nestle Pakistan Limited
- 34) CGD Consulting Pvt Ltd
- 35) Coca-Cola Icecek Pakistan
- 36) Techlogix
- 37) Bazaar Technologies
- 38) Jaffer Business Systems
- 39) Tri-Pack Films Ltd
- 40) 1 Link (Private) Limited
- 41) TekRevol LLC
- 42) Engro Corporation Limited
- 43) HRSG Consulting
- 44) Nestle Pakistan Limited
- 45) Descon Engineering Limited

Merit List, CVs Sent to Industries and Add Posted on DIL Web Page: **470**

Pictures

